

CDP-CX100/CX100S

SERVICE MANUAL



Photo : CDP-CX100

US Model
CDP-CX100/CX100S
Canadian Model
AEP Model
UK Model
Australian Model
CDP-CX100

Model Name Using Similar Mechanism	NEW
CD Mechanism Type	CDM-30
Optical Pick-up Block Type	KSM-310ABM

SPECIFICATIONS

Compact Disc Player

System	Compact disc digital audio system
Laser	Semiconductor laser
Wavelength	780–790 nm
Frequency response	2 Hz–20 kHz (± 0.3 dB)
Signal to noise ratio	More than 116 dB
Dynamic range	More than 100 dB
Harmonic distortion	Less than 0.0025%
Channel separation	More than 110 dB

Outputs

LINE OUT (FIXED) (phono jacks)	Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms
LINE OUT (VARIABLE) (phono jacks)	Output level max. 2 V (at 50 kilohms) Load impedance over 10 kilohms
DIGITAL OUTPUT (optical output connector)	Wave length 660 nm (OPTICAL) Output level –18 dBm
PHONES (stereo phone jack)	Output level max. 15 mW Load impedance 32 ohms

General

Power requirements	120 V AC, 60 Hz (US, Canadian) 240 V AC, 50/60Hz (Australian) 220 — 240V AC, 50/60Hz (AEP, UK)
Power consumption	20 W
Dimensions	When the front cover is closed Approx. 430 × 240 × 470 mm (w/h/d) (17 × 9½ × 18⅝ inches) When the front cover is open Approx. 430 × 380 × 470 mm (w/h/d) (17 × 15 × 18⅝ inches) Including projecting parts and controls
Mass	Approx. 10.0 kg, net (22 lb 1 oz)

Remote Commander RM-DX100 (CDP-CX100 only)

Remote control system	Infrared control
Power requirements	3 V DC with two size AA batteries (IEC designation R6)
Dimensions	68 × 44 × 200 mm (w/h/d) (2¾ × 1¾ × 7⅞ inches)
Mass	185 g (6.6 oz) including batteries

Design and specifications are subject to change without notice.



COMPACT DISC PLAYER
SONY®

TABLE OF CONTENTS

Section	Title	Page
SECTION 1.	SERVICE NOTE	3
SECTION 2.	GENERAL	
Identifying the Parts		4
Installing Discs		5
SECTION 3.	DISASSEMBLY	
3-1.	Case Assembly	8
3-2.	Front Panel Assembly	8
3-3.	Back Panel	9
3-4.	Main Board	9
3-5.	CD Mechanism Deck (1)	10
3-6.	Table (Rotary)	10
3-7.	CD Mechanism Deck (2)	11
SECTION 4.	ELECTRICAL ADJUSTMENTS	12
SECTION 5.	IC PIN FUNCTIONS	
• IC101 DSP Controller (CXD2515Q)		14
• IC302 Digital Filter (CXD2567M)		17
• IC401 Main System Controller (M37451M4-336FP)		18
• IC801 Sub System Controller (MB89646PF-109)		20
SECTION 6.	DIAGRAMS	
6-1.	Circuit Boards Location	22
6-2.	Block Diagram	23
6-3.	Printed Wiring Boards	
• MAIN Section		27
6-4.	Schematic Diagram	
• MAIN Section		31
6-5.	Schematic Diagram	
• PANEL Section		36
6-6.	Printed Wiring Boards	
• PANEL Section		39
6-7.	Semiconductor Lead Layouts	41
SECTION 7.	EXPLODED VIEWS	
7-1.	Case, Main Board Section	43
7-2.	Table (Rotary) Section	44
7-3.	CD Mechanism Section-1 (CDM-30)	45
7-4.	CD Mechanism Section-2 (CDM-30)	46
7-5.	Optical Pick-up Section (KSM-310ABM)	47
SECTION 8.	ELECTRICAL PARTS LIST	48

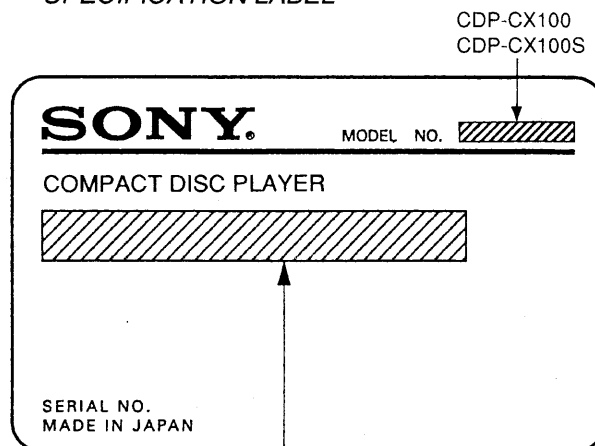
Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

MODEL IDENTIFICATION — SPECIFICATION LABEL —



US, Canadian model : 120V AC, 60Hz, 20W
AEP, UK model : 220 — 240V AC, 50/60Hz, 20W
Australian model : 240V AC, 50/60Hz, 20W

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

The following caution label is located inside of the unit.

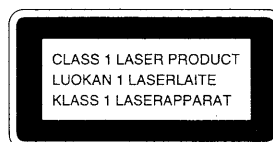
CAUTION : INVISIBLE LASER RADIATION WHEN OPEN, AVOID EXPOSURE TO BEAM.

ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.

VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA DLET ALTTIINA LASERSÄTEILYLLE.

VARNING : LASERSTRÅLING NÅR DENNA DEL ÄR OPPNÅD OCH SPÄRREN ÄR URXOPPLAD.

ADVERSEL : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.



This appliance is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

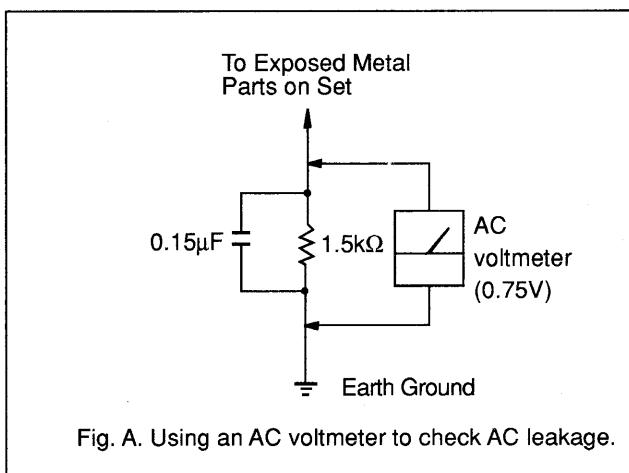
SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK Δ OR DOTTED LINE WITH MARK Δ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 SERVICE NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the "S curve check" in "CD section adjustment" and check that the S curve waveform is output three times.

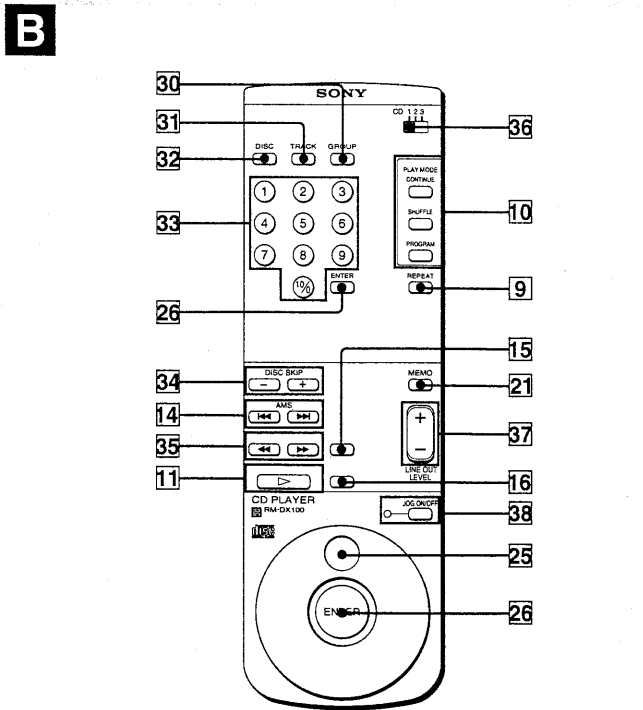
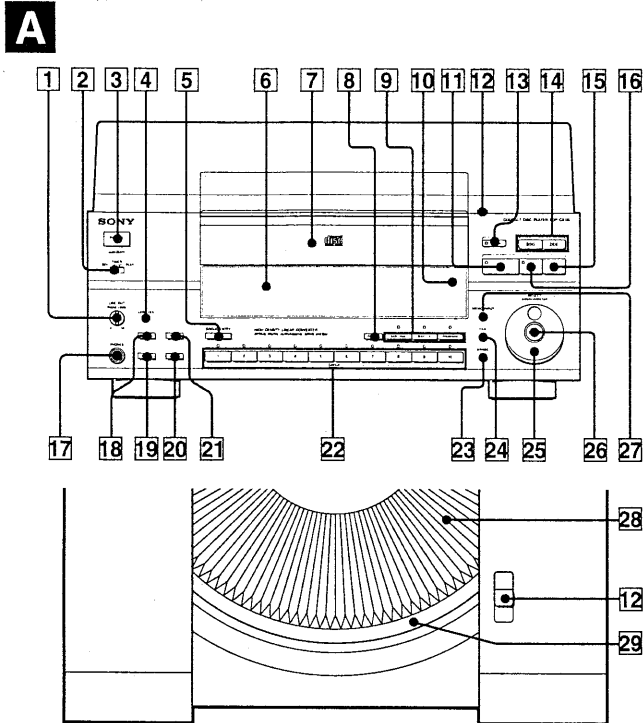
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE Δ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 2 GENERAL

This section is extracted from instruction manual.

Identifying the Parts



RM-DX100

Front Panel A Remote Commander RM-DX100 B

See the pages indicated in () for details.
For the remote commander RM-P332, refer to the instruction manual of the amplifier TA-E731X.

- 1 LINE OUT/PHONE LEVEL control (6)
- 2 TIMER switch (34)
- 3 POWER switch (9)
- 4 LEVEL FILE button (29)
- 5 GROUP ENTRY button (31)
- 6 Display (9)
- 7 Front cover (9)
- 8 REPEAT button (23)
- 9 PLAY MODE buttons
 - CONTINUE button (12)
 - SHUFFLE button (17)
 - PROGRAM button (19)
- 10 Remote sensor (5)
- 11 ► (play) button (13)
- 12 OPEN lever (9)
- 13 UNLOAD button (9)
- 14 ◀◀▶▶ (AMS*) buttons (16)
- 15 ■ (stop) button (13)
- 16 || (pause) button (13)
- 17 PHONES jack (14)
- 18 TIME button (15)
- 19 CHECK button (22)
- 20 CLEAR button (21)
- 21 MEMO button (32)
- 22 GROUP 1-10 buttons (30)
- 23 ERASE button (26)
- 24 FILE button (26)
- 25 JOG dial (9)
- 26 ENTER button (12)
- 27 MEMO INPUT button (25)
- 28 Disc slit (9)
- 29 Rotary table (9)
- 30 GROUP button (32)
- 31 TRACK button (16)
- 32 DISC button (13)
- 33 Numeric buttons (13)
- 34 DISC SKIP -/+ buttons (14)
- 35 ◀◀▶▶ (manual search) buttons (16)
- 36 CD 1-2-3 selector (7)
- 37 LINE OUT LEVEL +/- button (6)
- 38 JOG ON/OFF button and indicator (8)

Notes on the JOG dial and the JOG ON/OFF button on the remote commander

- Before using the JOG dial on the remote commander, press the JOG ON/OFF button on the remote commander to turn on the indicator beside the button.
- After using the JOG dial on the remote commander, press the JOG ON/OFF button again to turn off the indicator. The operation of the dial is canceled.

* AMS is the abbreviation for Automatic Music Sensor.

Installing Discs

The CDP-CX100/CX100S allows you to install up to 100 discs. You can assign a name to each disc so that you can locate the disc easily (see page 25).

Inserting Discs

1 Press POWER to turn on the player.
The display lights up.

2 Press UNLOAD.
The UNLOAD button indicator flashes.
The rotary table turns and the disc slit at the playing position is released and comes to the loading position. The UNLOAD button indicator lights up.

a) Playing position

The position of the current disc (disc playing or ready to be played)
When a disc is set to the playing position, "DISC HOLD" appears in the display.

The UNLOAD button indicator is unlit.

b) Loading position

The position if the current disc that can be taken out or replaced.

The UNLOAD button indicator is lit.

c) Rotary table

3 Slide the OPEN lever to the opening position, then manually open the front cover.

4 Rotate the JOG dial to turn the rotary table and move any disc slit to the loading position.

a) Disc slit at the loading position

(Current disc slit)

The disc in this slit (current disc) is played first when you press ► or ENTER.

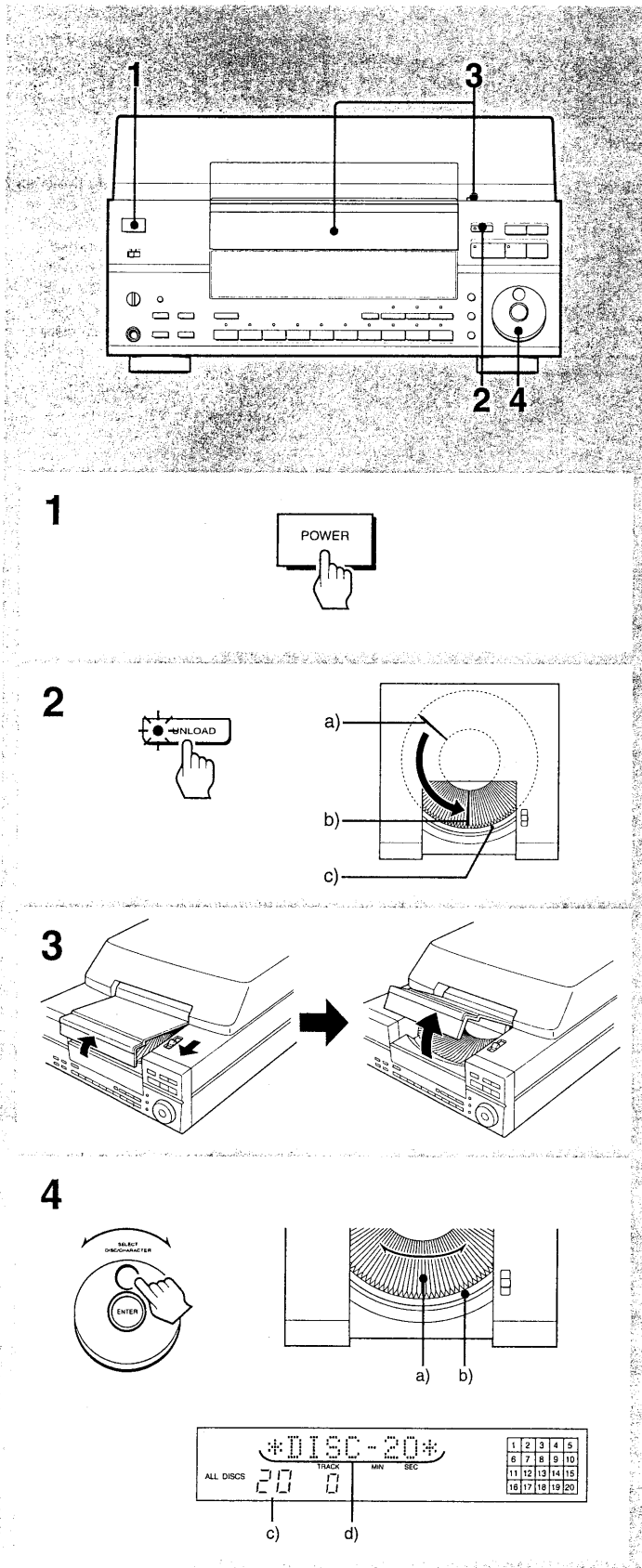
b) Disc number

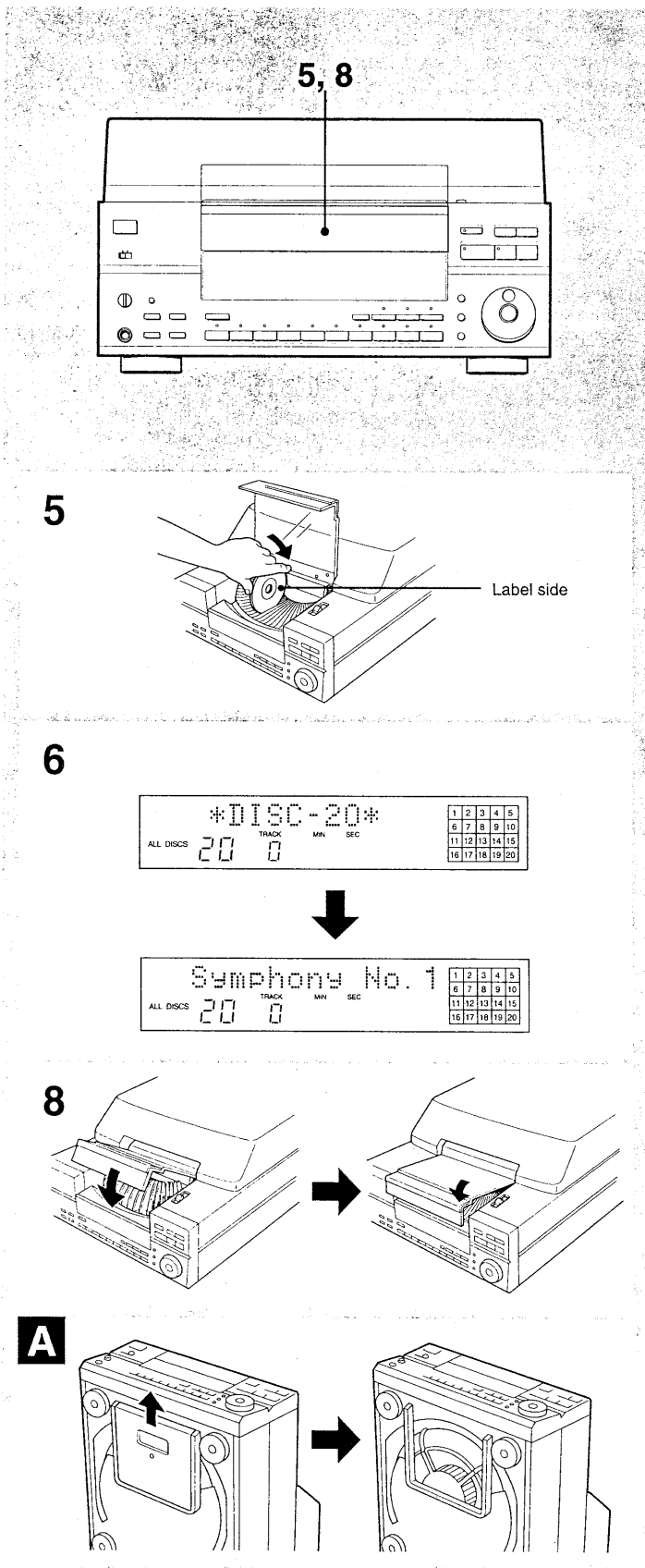
c) Current disc number

d) Disc memo

You can input your original disc memo titles instead of the current disc numbers, "*DISC-1, 2 etc.*" (see page 25).

(Continued)





Installing Discs

- 5** Insert a disc vertically, with the label facing right.
- 6** You can input your original disc memo titles instead of the current disc numbers, "*DISC-1, 2 etc.*" (see page 25).
This is convenient when many discs are installed, you can easily find what disc is in the current disc slit.
- 7** Repeat step 4 to 6 to insert more discs.
- 8** Close the front cover.
Press the right edge of the cover until the OPEN lever clicks.

If you insert a disc with the label facing left

"-NO DISC-" appears when the disc is set to the playing position. Press UNLOAD and re-insert the disc with the label facing right.

Note on the rotary table

You cannot rotate the table when the UNLOAD button indicator is unlit (while a disc is set to the playing position or while "-NO DISC-" appears). Press UNLOAD to turn on the indicator. The current disc slit will come to the loading position, then you can rotate the rotary table using the JOG dial.

When inserting an 8 cm (3-inch) CD

Be sure to attach the Sony CSA-8 adaptor to the disc. Do not insert an 8 cm (3-inch) CD without the adaptor.

Note on the front cover

Always close the front cover except when you are inserting or replacing discs.

If you drop something under the disc slits. **A**

Slide the bottom cover to detach it. Remove the foreign object, then slide the cover in.

Installing Discs

Removing Discs

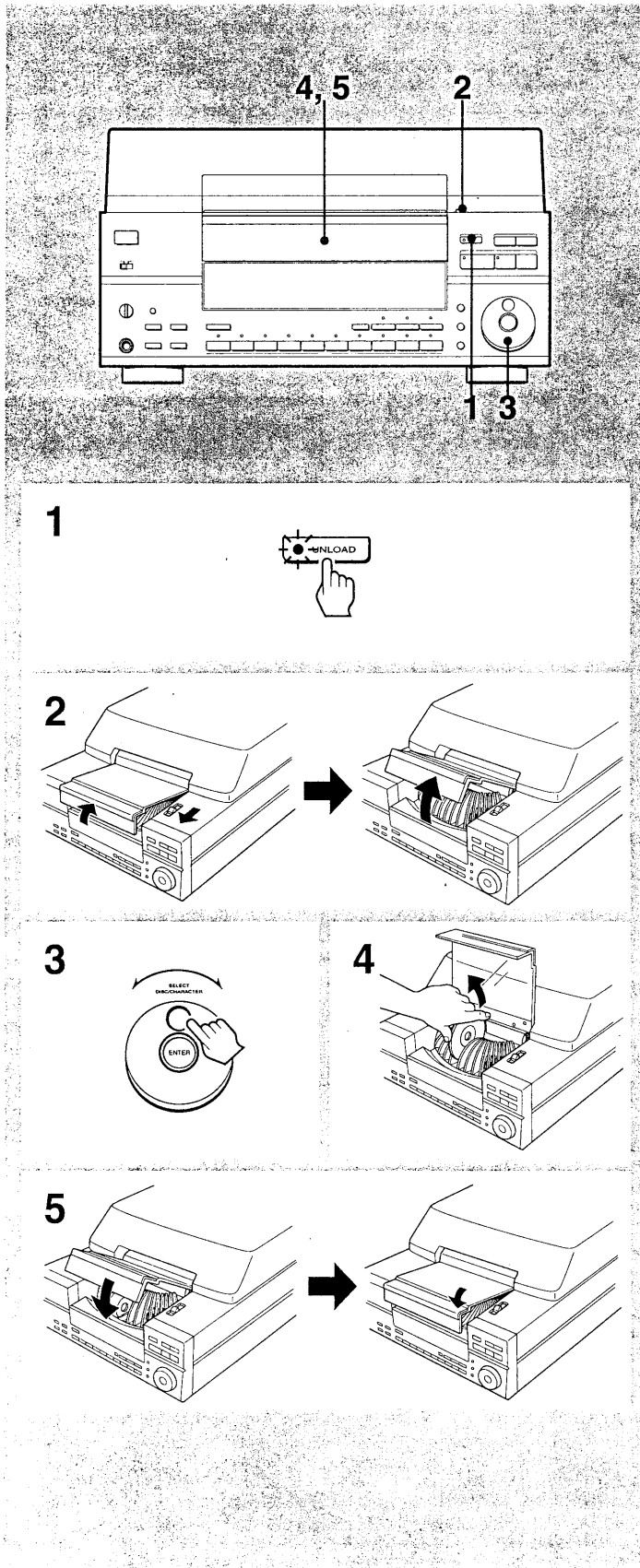
- 1 Press UNLOAD.**
The UNLOAD button indicator flashes, then lights up.
- 2 Slide the OPEN lever to the opening position, then manually open the front cover.**
- 3 Rotate the JOG dial to set the disc slit, containing the disc you want to remove, to the loading position.**
- 4 Take out the disc.**
Repeat steps 3 to 4 to remove more discs.
- 5 Close the front cover.**
Press the right edge of the cover until the OPEN lever clicks.

When you replace a disc in a slit

Disc Memo, Delete Bank, Level File or Group File which you assigned to the disc remains the same even if you remove a disc. When you replace the disc with a new one, erase or modify the above if necessary.

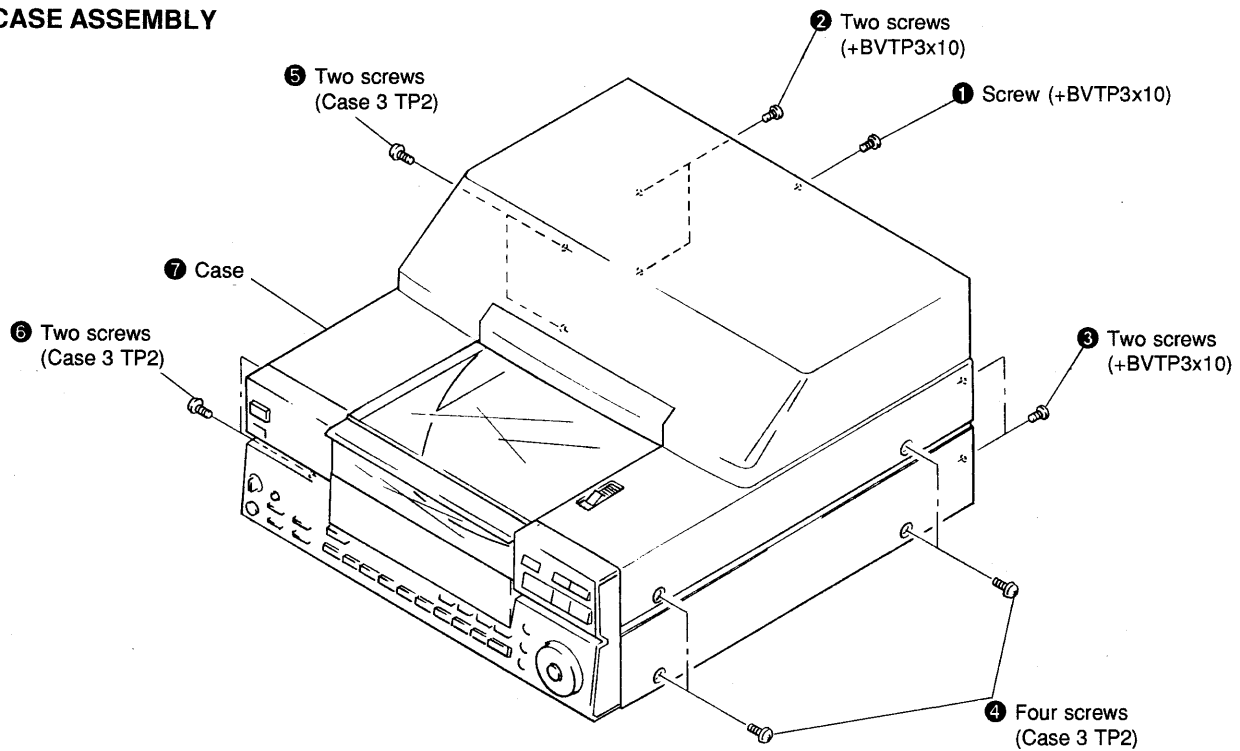
To erase all files assigned to a disc

You can erase all Custom Files and Group Files assigned to one particular disc. Set the disc to the loading position while the UNLOAD button indicator is lit, then hold down ERASE until "1 DISC ERASE" appears in the display. All the files assigned to the current disc are erased (see page 24).

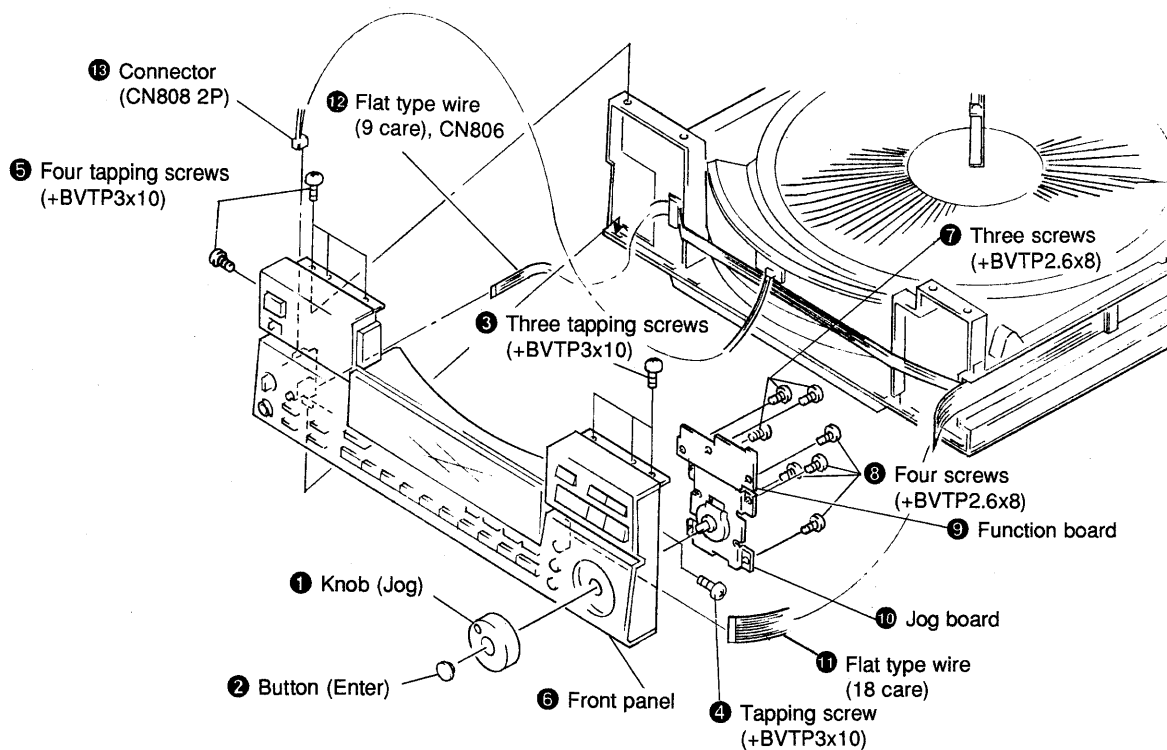


SECTION 3 DISASSEMBLY

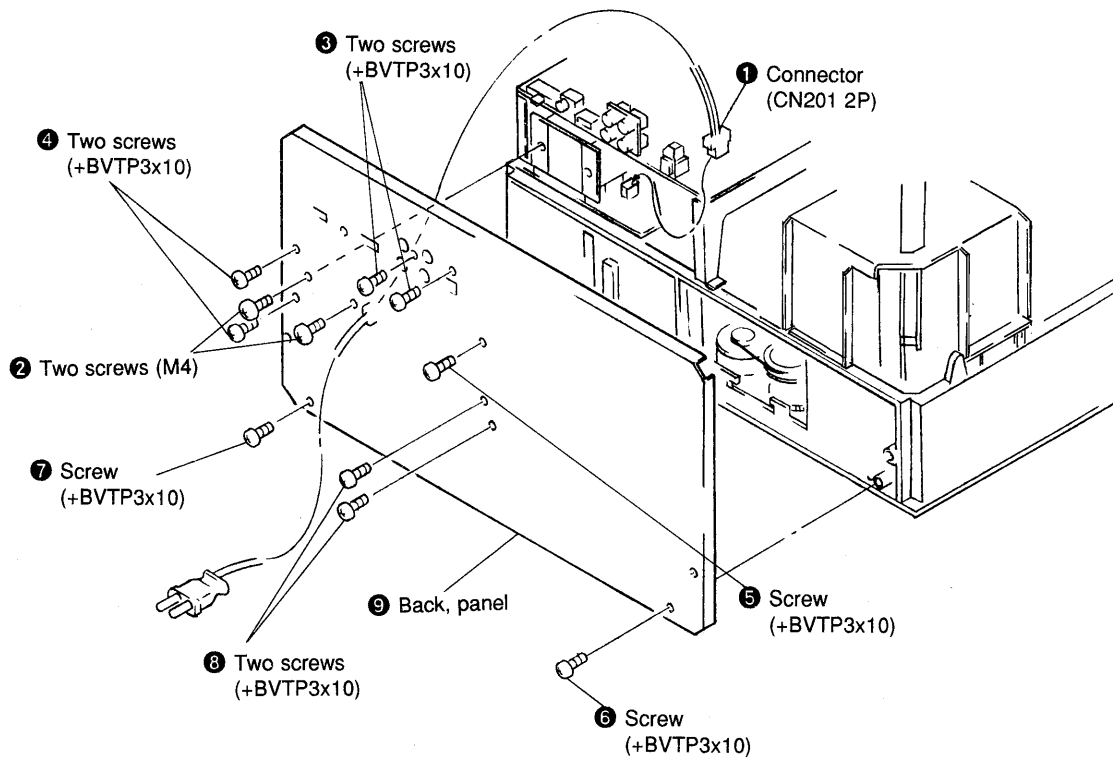
3-1. CASE ASSEMBLY



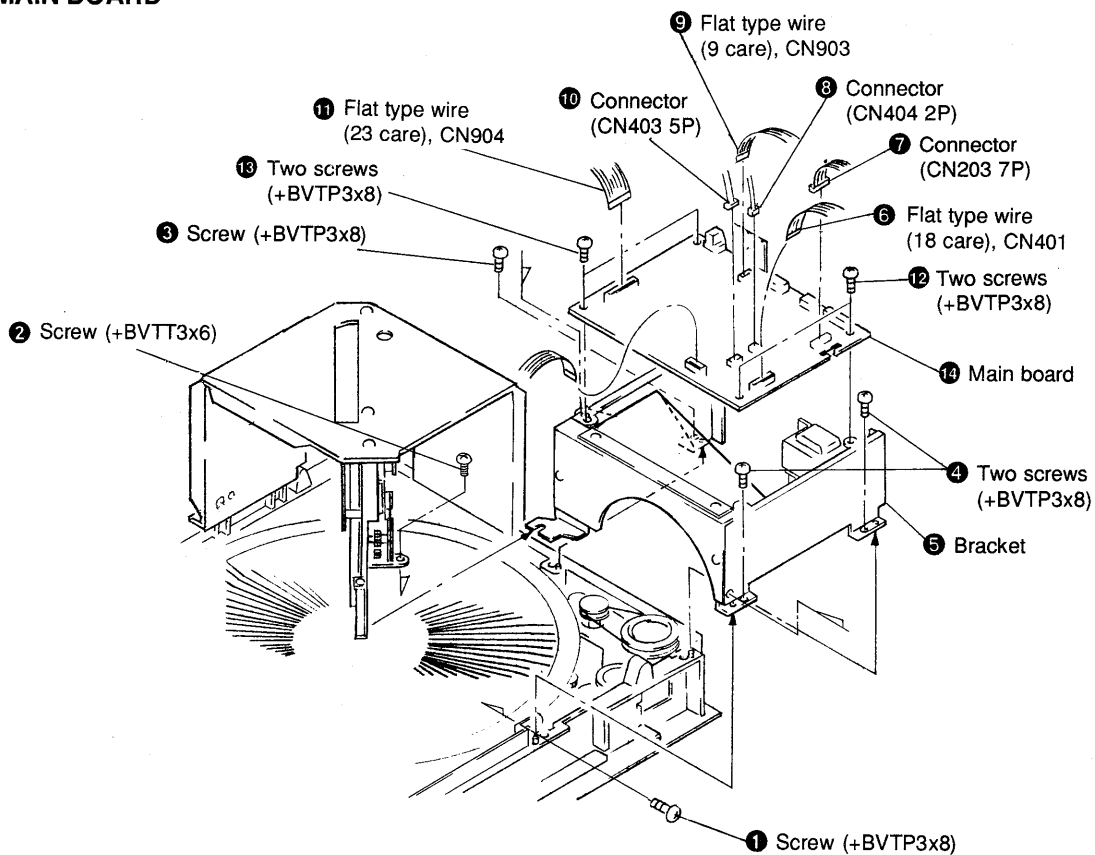
3-2. FRONT PANEL ASSEMBLY



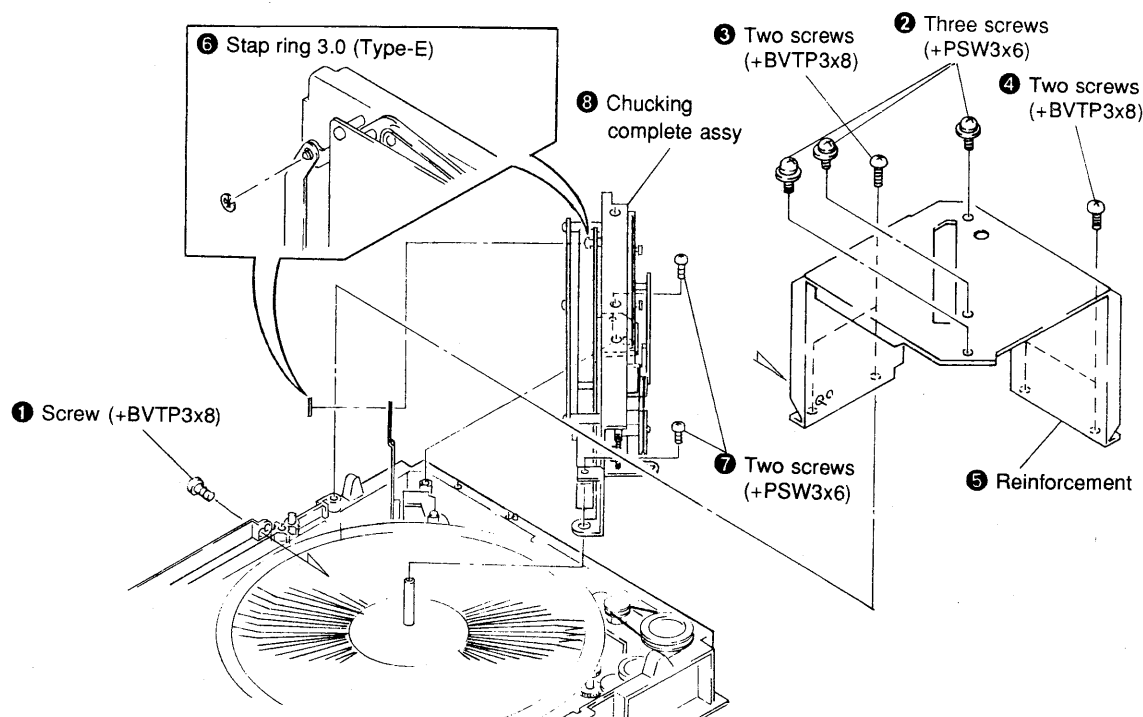
3-3. BACK PANEL



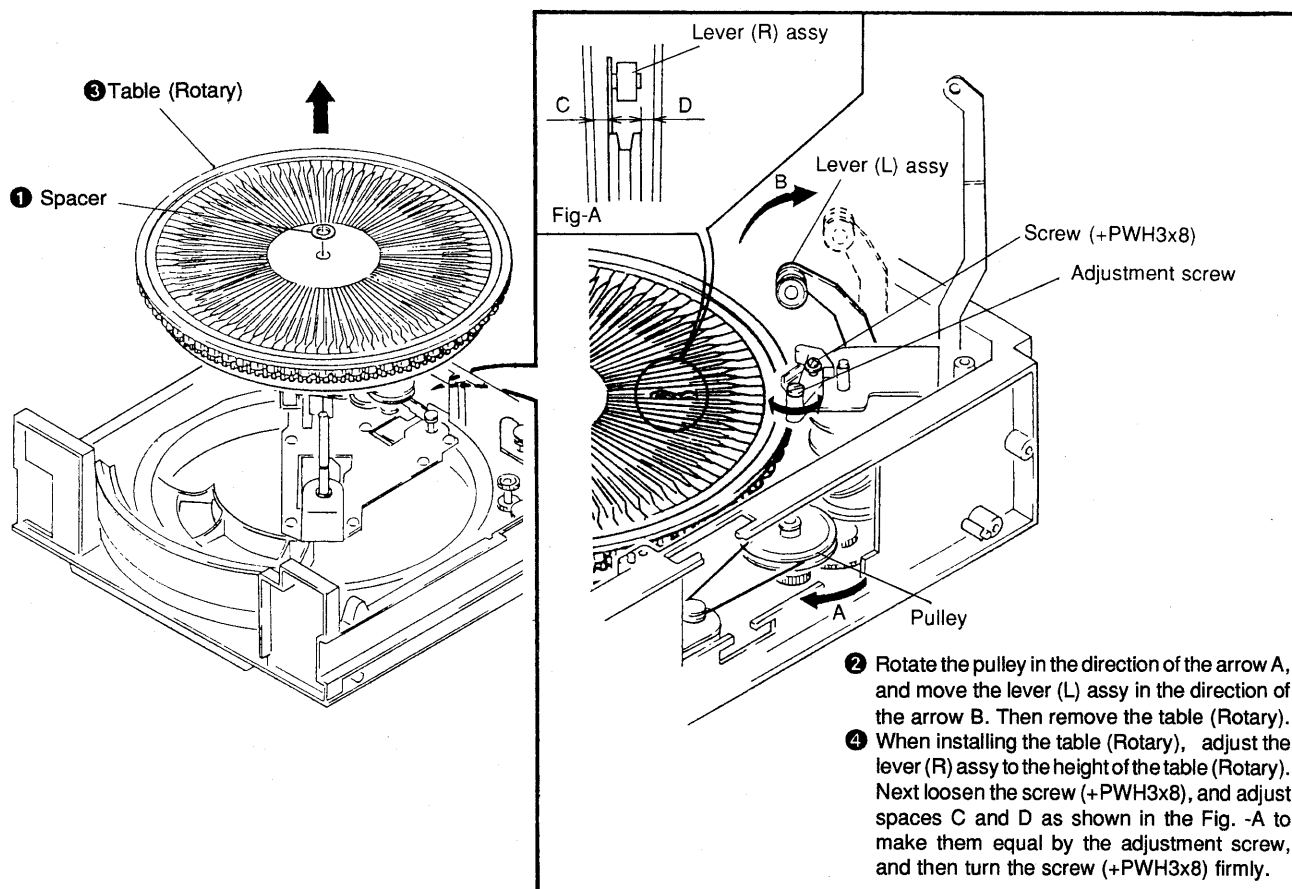
3-4. MAIN BOARD



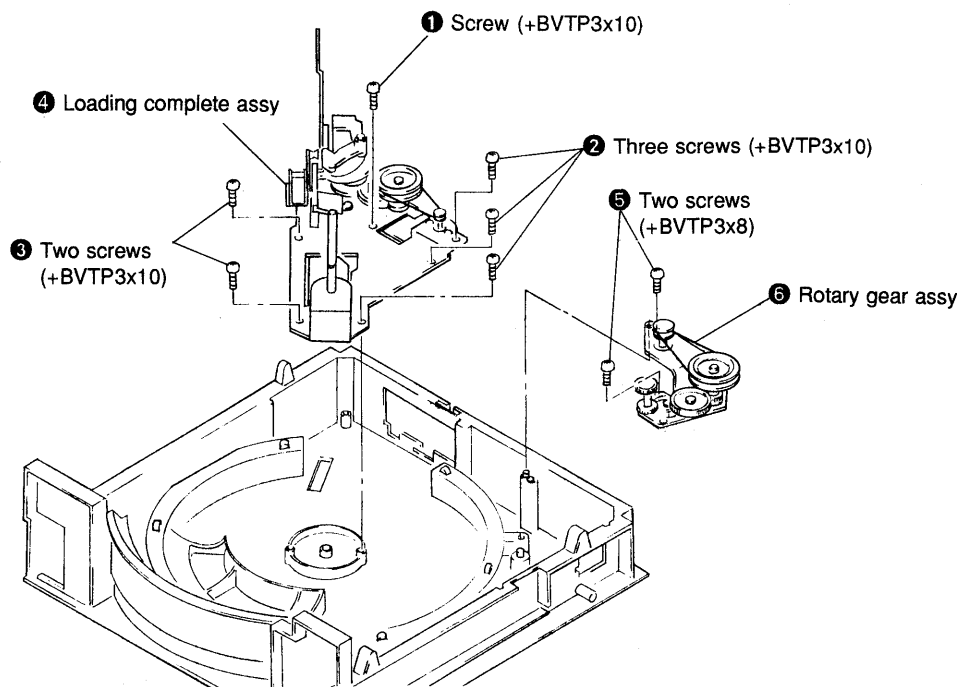
3-5. CD MECHANISM DECK (1)



3-6. TABLE (ROTARY)



3-7. CD MECHANISM DECK (2)

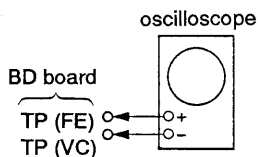


SECTION 4 ELECTRICAL ADJUSTMENTS

Note:

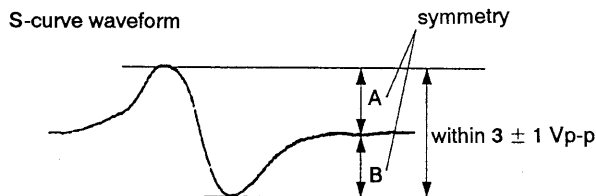
1. Adjust or check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10 M Ω impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S-Curve Check



Procedure:

1. Connect oscilloscope to test point TP (FE) on BD board.
2. Connect between test point TP (FEI) and TP (VC) by lead wire.
3. Turned Power switch on.
4. Playback the disc (YEDS-18) and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3 ± 1 Vp-p.

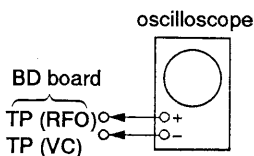


6. After check, remove the lead wire connected in step 2.

Note:

- Try to measure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.
- Take sweep time as long as possible and light up the brightness to obtain best waveform.

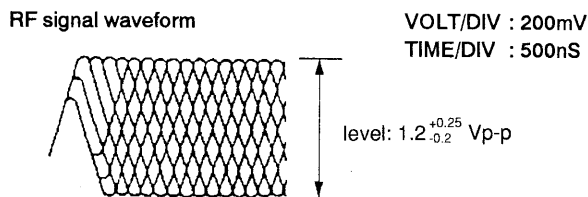
Focus Offset Adjustment



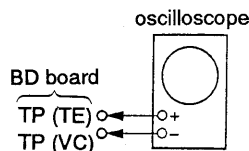
Procedure:

1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Adjust RV102 on RF board so that the oscilloscope waveform is clear and check RF signal level is correct or not.

Note: Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

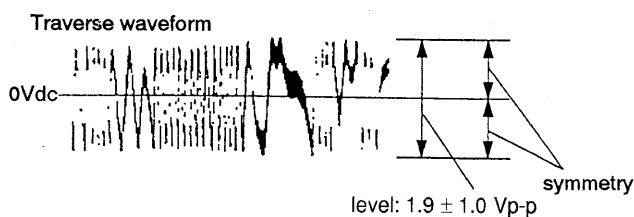


Tracking Offset Adjustment



Procedure:

1. Connect test point TP (ADJ) on MAIN board to ground and TP (TEI) on BD board to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TE) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Adjust RV101 on RF board so that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0 Vdc, and check this level.

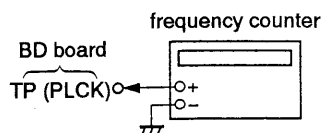


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure:

1. Connect frequency counter to test point (PLCK) with lead wire.

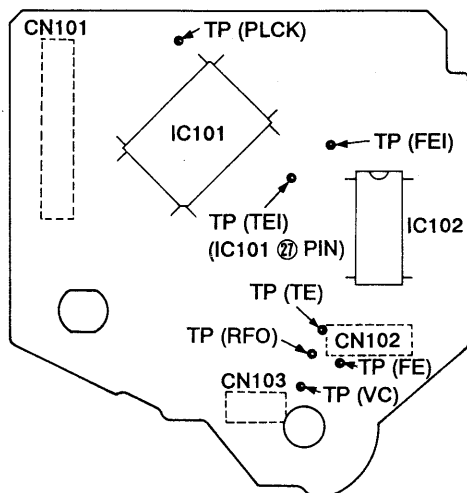


2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218 MHz.

Adjustment Location:

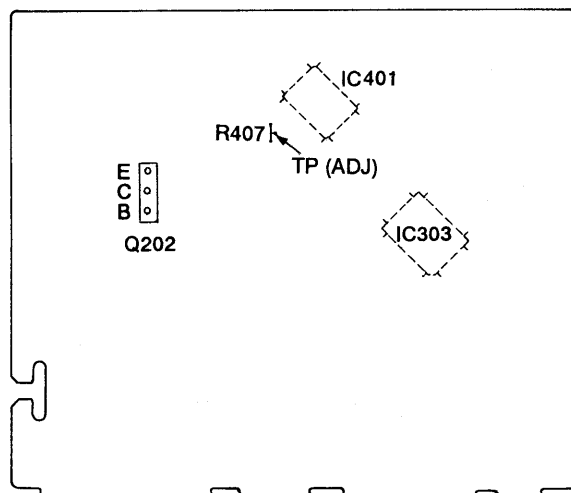
【BD BOARD】

— Conductor side —



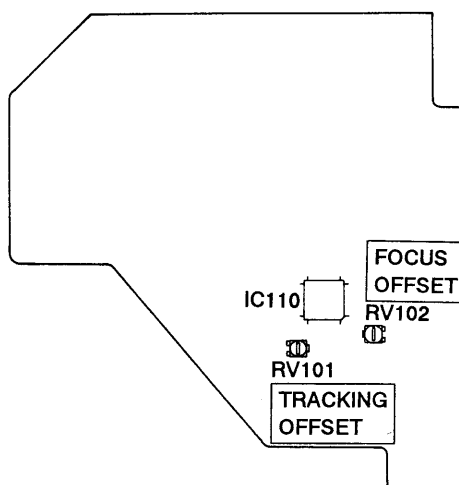
【MAIN BOARD】

— Component side —



【RF BOARD】

— Component side —



SECTION 5

IC PIN FUNCTIONS

5-1. IC PIN FUNCTIONS

- **IC101 DSP Controller (CXD2515Q)**

Functions effected by the captioned controller include focus (tracking/sled servo) EFM comparator, digital signal processor and CLV servo in the CD unit.

Pin No.	Pin Name	I/O	Description
1	SRON	O	Sled drive signal output. (Not in use with the model.)
2	SRDR	O	Sled drive signal output.
3	SFON	O	Sled drive signal output. (Not in use with the model.)
4	TFDR	O	Tracking drive signal output.
5	TRON	O	Tracking drive signal output. (Not in use with the model.)
6	TRDR	O	Tracking drive signal output.
7	TFON	O	Tracking drive signal output. (Not in use with the model.)
8	FFDR	O	Focus drive signal output.
9	FRON	O	Focus drive signal output. (Not in use with the model.)
10	FRDR	O	Focus drive signal output.
11	FFON	O	Focus drive signal output. (Not in use with the model.)
12	VCOO	O	Output of oscillation circuit for analog EFM PLL. (Not in use with the model.)
13	VCOI	I	Input of oscillation circuit for analog EFM PLL. (Fixed at "L".) The equipment is fixed at "L".
14	TEST	I	Test terminal. Normally: ground.
15	DVss	—	Digital ground terminal.
16	TEST2	I	Test terminal. Normally: ground.
17	TEST3	I	Test terminal. Normally: ground.
18	PDO	O	Output of charge-pump for analog EFM PLL. (Not in use with the model.)
19	VPCO	O	Output of charge-pump for variable pitch PLL. (Not in use with the model.)
20	VCKI	I	Clock signal input from VCO for variable pitch. (Fixed at "L".) The equipment is fixed at "L".
21	AVD2	—	Analog power supply terminal.
22	IGEN	I	Power supply terminal for operational amplifier.
23	AVS2	—	Analog ground terminal.
24	ADII	I	A/D converter input.
25	ADIO	O	Operational amplifier output.
26	RFDC	I	RF signal input.
27	TE	I	Tracking error signal input.
28	SE	I	Sled error signal input.
29	FE	I	Focus error signal input.
30	VC	I	Center voltage input.

Pin No.	Pin Name	I/O	Description
31	FILO	O	Output of filter for master PLL.
32	FILI	I	Input of filter for master PLL.
33	PCO	O	Output of charge-pump for master PLL.
34	CLTV	I	Input of control voltage for master VCO.
35	AVS1	—	Analog ground terminal.
36	RFAC	I	EFM signal input.
37	BIAS	I	Input of constant current for auto-assymmetry circuit.
38	ASYI	I	Auto-assymmetry comparator voltage input.
39	ASYO	O	EFM full-swing output.
40	AVD1	—	Analog power supply terminal.
41	DVD1	—	Digital power supply terminal.
42	ASYE	I	ON/OFF control of auto-assymmetry circuit. The equipment is fixed at “H”.
43	PSSL	I	Input of output mode select for audio data. The equipment is fixed at “L”.
44	WDCK	O	48 bit slot D/A interface word-clock output. (Not in use with the model.)
45	LRCK	O	48 bit slot D/A interface LR-clock output.
46	DATA	O	PSSL=1: DA16 output, PSSL=0: Serial data of 48 bit slot.
47	BCLK	O	PSSL=1: DA15 output, PSSL=0: Bit clock of 48 bit slot.
48	64DATA	O	PSSL=1: DA14 output, PSSL=0: Serial data of 64 bit slot. (Not in use with the model.)
49	64BCLK	O	PSSL=1: DA13 output, PSSL=0: Bit clock of 64 bit slot. (Not in use with the model.)
50	64LRCK	O	PSSL=1: DA12 output, PSSL=0: LR clock of 64 bit slot. (Not in use with the model.)
51	GTOP	O	PSSL=1: DA11 output, PSSL=0: GTOP output. (Not in use with the model.)
52	XUGF	O	PSSL=1: DA10 output, PSSL=0: XUGF output. (Not in use with the model.)
53	XPLCK	O	PSSL=1: DA09 output, PSSL=0: XPLCK output.
54	GFS	O	PSSL=1: DA08 output, PSSL=0: GFS output.
55	RFCK	O	PSSL=1: DA07 output, PSSL=0: PFCK output.
56	C2PO	O	PSSL=1: DA06 output, PSSL=0: C2PO output. (Not in use with the model.)
57	XRAOF	O	PSSL=1: DA05 output, PSSL=0: XRAOF output. (Not in use with the model.)
58	MNT3	O	PSSL=1: DA04 output, PSSL=0: MNT3 output.
59	MNT2	O	PSSL=1: DA03 output, PSSL=0: MNT2 output.
60	MNT1	O	PSSL=1: DA02 output, PSSL=0: MNT1 output.
61	MNT0	O	PSSL=1: DA01 output, PSSL=0: MNT0 output.
62	XTAI	I	X'tal oscillation circuit input. (16.9MHz)
63	XTAO	O	X'tal oscillation circuit output. (Not in use with the model.)
64	XTSL	I	X'tal select input. The equipment is fixed at “L”.
65	DVss	—	Digital ground terminal.

Pin No.	Pin Name	I/O	Description
66	FSTI	I	2/3 divide input of ⑥②, ⑥③ pin.
67	FSTO	O	2/3 divide output of ⑥②, ⑥③ pin.
68	C4M	O	4.2336MHz output. (Not in use with the model.)
69	C16M	O	16.9344MHz output. (Not in use with the model.)
70	MD2	I	Digital out ON/OFF control terminal. The equipment is fixed at "H".
71	DOUT	O	Output of digital out signal.
72	EMPH	O	Emphasis mode select output of playback disc. (Not in use with the model.)
73	WFCK	O	WFCK output.
74	SCOR	O	Sub-code sync output.
75	SBSO	O	Serial output of sub P-W. (Not in use with the model.)
76	EXCK	I	Input of clock signal for SBSO read out. (Fixed at "L".)
77	SUBQ	O	Sub-Q 80-bit output.
78	SQCK	I	Clock input for SQSO read-out.
79	MUTE	I	Muting select pin.
80	SENS	O	Sense signal output.
81	XRST	I	System reset signal input.
82	DIRC	I	Used for 1 track jump.
83	SCLK	I	Input of clock signal for read the sens serial data.
84	DFSW	I	DFCT select terminal. The equipment is fixed at "L".
85	ATSK	I	Antch-shock terminal. The equipment is fixed at "L".
86	DATA	I	Serial data input from IC401 (system control).
87	XLAT	I	Latch signal input from IC401 (system control).
88	CLOK	I	Serial data transfer clock input from IC401 (system control).
89	COUT	O	Track count signal output. (Not in use with the model.)
90	DVDD	—	Digital power supply terminal.
91	MIRR	O	MIRR signal output. (Not in use with the model.)
92	DFCT	O	Deffect signal output. (Not in use with the model.)
93	FOK	O	Focus OK output.
94	FSW	O	Output of filter select for spindle motor. (Not in use with the model.)
95	MON	O	Output of ON/OFF control for spindle motor.
96	MDP	O	Output of servo control for spindle motor.
97	MDS	O	Output of servo control for spindle motor.
98	LOCK	O	Sled run-away prevention circuit operates when this signal is "L". (Not in use with the model.)
99	SSTP	I	The limit switch is connected to this pin.
100	SFDR	O	Sled drive signal output.

• IC302 Digital Filter (CXD2567M)

Pin No.	Name	I/O	Description
1	V _{SS}	—	Power source terminal (GND).
2	STSM	I	System mute input Significant at "H".
3	ATT	I	ATT data input when CTL is "L". EMP input when CLT is "H".
4	SHIFT	I	Shift clock input when CTL is "L". FS32 input when CTL is "H".
5	LATCH	I	Latch clock input when CTL is "L". FS48 input when CTL is "H".
6	CTL	I	Pull-down inside of the IC. Direct input mode at "H". Serial transfer mode at "L".
7	INIT	I	Resynchronization at the pull-up edge of the main signal.
8	BCKI	I	BCK input.
9	DATAI	I	Data input.
10	LRCKL	I	LRCK input.
11	TEST	I	Terminal for test. "L" is fixed for normal use.
12	V _{SS}	—	Power source terminal (GND).
13	128F _S	O	128Fs clock output.
14	INVI	I	Inverter input.
15	INVO1	O	Inverter output.
16	INVO2	O	Inverter output.
17	MCLK	I	Master clock input. (f=512Fs)
18	V _{DD}	—	Power source terminal (+5V).
19	BCKO	O	BCK output.
20	DL	O	L-ch data output.
21	DR	O	R-ch data output.
22	LRCKO	O	LRCK output.
23	FLGL	O	L-ch ϕ mute flag output.
24	FLGR	O	R-ch ϕ mute flag output.

• **IC401 Main System Controller (M37451M4)**

Functions effected by the captioned controller include IC101 (Digital signal processing, servo) and loading motor control, data exchange with IC801 (sub system controller).

Pin No.	Pin Name	I/O	Description
1	NC	—	} No connection.
2	NC	—	
3	SENSE	I	Input of SENSE signal for COUT count from IC101 (CXD2515Q).
4	NC	—	No connection.
5	QINT	O	Command pulse output to sub system controller (IC801).
6	SACK	O	Command acknowledge output to sub system controller (IC801).
7	MREQ	I	Command request input from sub system controller (IC801).
8 to 11	CMD3 to CMD0	I/O	Input and output of data exchange with sub system controller (IC801).
12	LATCH	O	Attenuator data latch pulse output to IC302 (CXD2567M).
13	SHIFT	O	Attenuator data clock output to IC302 (CXD2567M).
14	ATT	O	Attenuator data output to IC302 (CXD2567M).
15	—	—	} No connection.
16	—	—	
17	SENS2	I	Input signal from IC811 (Disc (A) sensor).
18	SENS3	I	Input signal from IC810 (Address sensor).
19	SCOR	I	Sub-code sync (S0+S1) detection input from IC101 (CXD2515Q).
20	NC	—	} No connection.
21	NC	—	
22	NC	—	
23	NC	—	
24	NC	—	
25	GND	—	Ground terminal. (GND)
26	RESET	I	Reset signal input. "L": RESET
27	NC	—	No connection.
28	XIN	I	Clock signal input. (10 MHz)
29	XOUT	O	Clock signal output.
30	NC	—	} No connection.
31	NC	—	
32	VSS	—	Ground terminal. (GND)
33	CLK	O	Data clock signal output to IC101 (CXD2515Q).
34	DATA	O	Data signal output to IC101 (CXD2515Q).
35	MUTE	O	Muting signal output.
36	GFS	I	GFS signal input from IC101 (CXD2515Q). "L": NG, "H": OK
37	FOK	I	FOK signal input from IC101 (CXD2515Q). "L": NG, "H": OK
38	LDON	O	Laser ON/OFF control output optical pick-up block.
39	XLT	O	Data latch pulse signal output to IC101 (CXD2515Q).
40	SCLK	O	Calculation readout clock output to IC101 (CXD2515Q).
41	NC	—	} No connection.
42	—	—	
43	—	—	
44	—	—	
45	SENS1	I	Input signal from IC810 (Disc sensor).

Pin No.	Pin Name	I/O	Description
46	M1L	O	Output to rotate M803 (Table motor) left. *1
47	M1R	O	Output to rotate M803 (Table motor) right. *1
48	M2 IN	O	Output to rotate M802 (Loading motor) in the loading in direction. *2
49	M2 OUT	O	Output to rotate M802 (Loading motor) in the loading out direction. *2
50	M3 OUT	O	Output to rotate M801 (Chucking motor) in the chucking out direction. *3
51	M3 IN	O	Output to rotate M801 (Chucking motor) in the chucking in direction. *3
52	DISC SW	I	Input of S842 (Disc det switch).
53	—	—	No connection.
54	DISC UP	I	Input of S843 (Loading det switch). "L": DISC UP
55	DISC DWN	I	Input of S843 (Loading det switch). "L": DISC DOWN
56	CHK ON	I	Input of S844 (Chucking up/down det switch). "L": CHUCKING ON
57	CHK OFF	I	Input of S844 (Chucking up/down det switch). "L": CHUCKING OFF
58	AFADJ	I	Test mode terminal. It is possible to check the interface between the sub system controller (IC801) and this controller (IC401).
59	ADJ	I	Test mode terminal. GFS is no longer monitored during PLAY, PAUSE or SEARCH, while not stopping even with GFS remaining still at "L" (NG).
60	—	—	} No connection.
61	—	—	
62 to 65	TP3 to TP0	O	Test point.
66	—	—	} No connection.
67	—	—	
68	DAVREF	—	Input terminal of reference voltage D/A input port.
69	ADVREF	—	Input terminal of reference voltage A/D input port.
70	AVSS	—	Ground terminal. (GND)
71	AVCC	—	} Power supply terminal. (+5V)
72	VCC	—	
73	VSS	—	Ground terminal. (GND)
74	—	—	No connection.
75	SQCLK	O	Subcode Q data readout clock output to IC101 (CXD2515Q).
76	—	—	No connection.
77	SUB Q	I	Subcode Q data input from IC101 (CXD2515Q).
78	—	—	} No connection.
79	—	—	
80	NC	—	

*1. Table motor control

	LEFT	RIGHT	BRAKE
M1L ④⑥	PULSE	"L"	"H"
M2R ④⑦	"L"	PULSE	"H"

*2. Loading motor control

	IN	OUT	BRAKE
M2 IN ④⑧	"H"	"L"	"H"
M2 OUT ④⑨	"L"	"H"	"H"

*3. Chucking motor control

	IN	OUT	BRAKE
M3 OUT ⑤⑩	"L"	"H"	"H"
M3 IN ⑤⑪	"H"	"L"	"H"

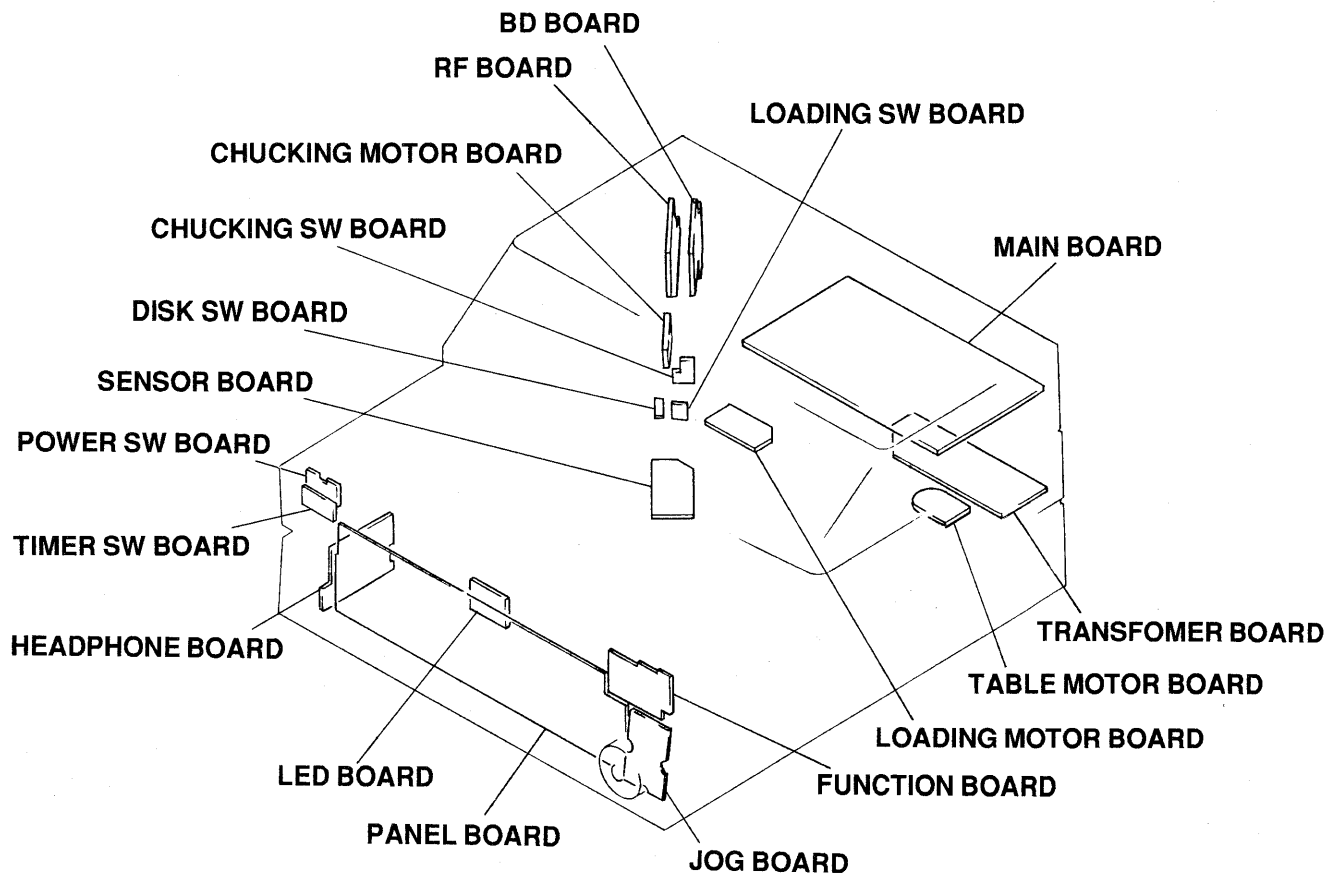
• IC801 SUB SYSTEM CONTROLLER (MB89646PF-109)

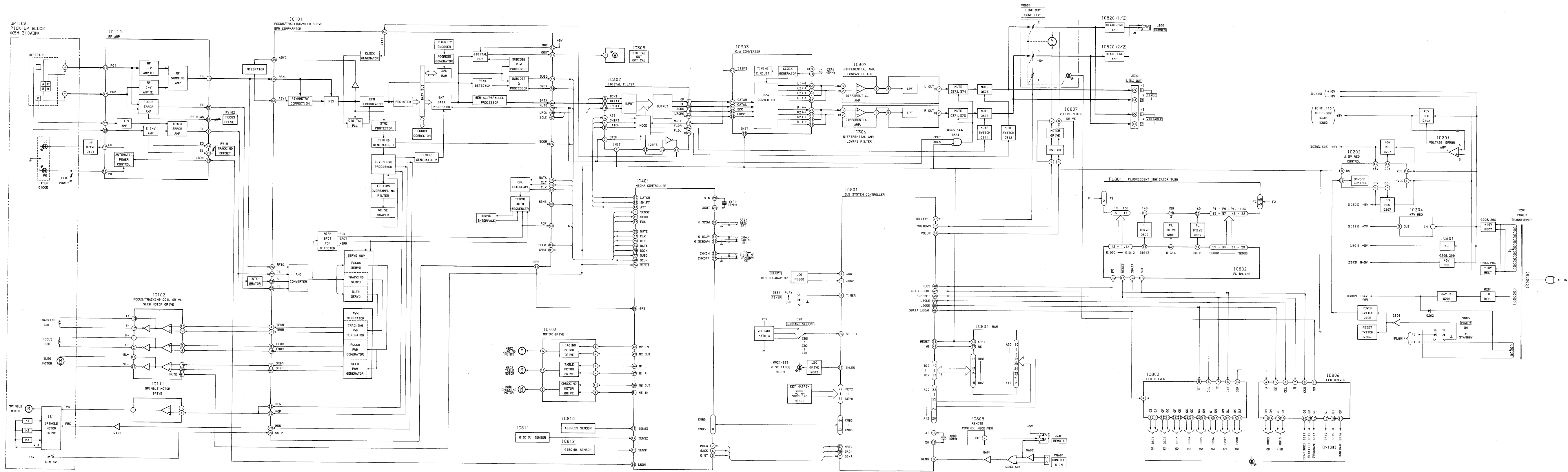
Pin No.	Pin Name	I/O	Description
1	MTEST	I	Mechanism microprocessor test pin. Normally High.
2	U-J	I	Japan: High. Overseas: Low.
3	TEST	I	Master microprocessor check pin. Normally High.
4	TIMER	I	Panel TIMER SW.
5	JOG1	I	} JOG input.
6	JOG0	I	
7	QINT	I	Mechanism microprocessor communication.
8	RMMO	I	Remote control input.
9	GND	—	GND
10	NC	—	No connection.
11	GND	—	} GND
12	GND	—	
13	XO	O	Clock oscillation output (10 MHz).
14	XI	I	Clock oscillation input (10 MHz).
15	VSS	—	GND
16	RESET	I	Reset input.
17	INLED	O	Internal lighting LED output.
18	—	—	} Test pin
19	—	—	
20	A12	O	} S-RAM address line.
21	A11	O	
22	A10	O	
23	A9	O	
24	A8	O	
25	A7	O	
26	A6	O	
27	A5	O	
28	A4	O	
29	A3	O	
30	A2	O	
31	A1	O	
32	A0	O	
33	D7	I/O	} S-RAM data line (input/output).
34	D6	I/O	
35	D5	I/O	
36	D4	I/O	
37	D3	I/O	
38	D2	I/O	
39	D1	I/O	
40	D0	I/O	

Pin No.	Pin Name	I/O	Description
41	WE	O	S-RAM write enable. Low active.
42	—	—	} Test pin
43	—	—	
44	—	—	
45	FLRESET	O	FL driver reset output.
46	SDATA	O	Driver communication data.
47	CLK	O	Driver communication clock.
48	FLCS	O	FL driver CS pin. Reading when low.
49	LED LE	O	Output enable. Normally low.
50	LED OE	O	LED driver latch. * High latch. 
51	NC	—	} No connection.
52	NC	—	
53	VOL DOWN	O	Volume down output.
54	VOL UP	O	Volume up output.
55	VCC	—	+5V power supply.
56	NC	—	No connection.
57	MREQ	O	Mechanism microprocessor communication.
58	VSS	—	GND
59	SACK	I	Mechanism microprocessor communication.
60	—	—	} Test pin
61	—	—	
62	—	—	
63	CMD3	I/O	} Mechanism microprocessor communication. (Data)
64	CMD2	I/O	
65	CMD1	I/O	
66	CMD0	I/O	
67	DAVC	—	} +5V power supply.
68	AVCC	—	
69	AVRH	—	
70	AVRL	—	} GND
71	AVSS	—	
72	—	—	
73	—	—	
74	SELECT	I	Remote control switching. CD1/CD2/CD3.
75	VOL LEVEL	I	Volume AD input.
76	KEY3	I	Pull up.
77	KEY2	I	} Key input.
78	KEY1	I	
79	KEY0	I	
80	—	I	Pull up.

SECTION 6 DIAGRAMS

6-1. CIRCUIT BOARDS LOCATION





6-3. PRINTED WIRING BOARDS

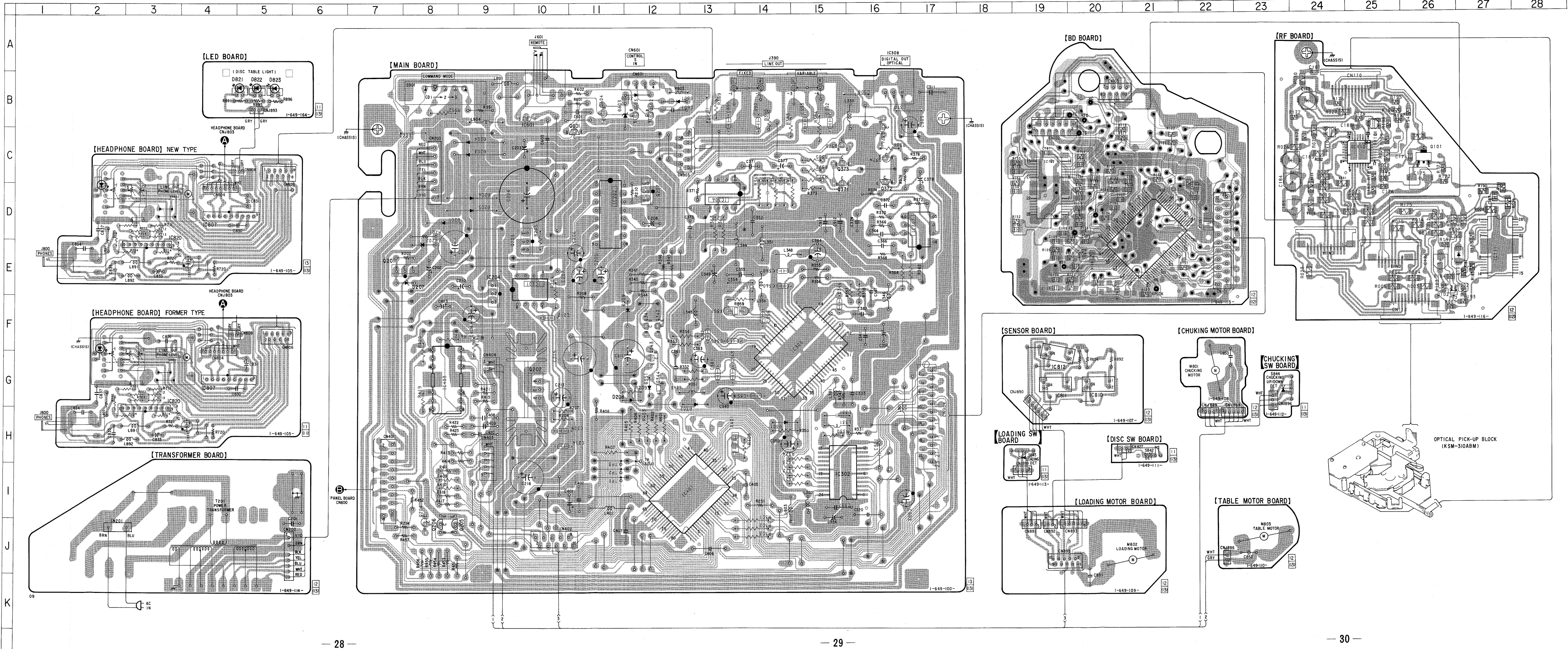
- MAIN SECTION
- See page 22 for Circuit Boards Location and see page 41, 42 for Semiconductor Lead Layouts.

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D101	E-27	Q101	C-26
D201	D-8	Q102	F-26
D202	E-8	Q201	E-7
D203	C-9	Q202	G-10
D204	C-9	Q203	E-9
D205	D-9	Q204	F-8
D206	D-9	Q205	J-9
D207	E-8	Q206	J-8
D208	G-11	Q207	D-12
D209	F-12	Q341	F-12
D301	H-14	Q342	F-12
D302	H-13	Q343	F-12
D351	G-12	Q344	G-12
D601	B-13	Q371	D-15
D602	B-12	Q372	C-16
D603	B-11	Q373	C-15
D821	B-5	Q374	C-16
D822	B-5	Q375	C-15
D823	B-5	Q376	C-16
IC101	D-20	Q601	B-11
IC102	C-19	Q602	B-12
IC110	C-25	Q603	B-12
IC111	E-27	Q604	B-11
IC201	E-10		
IC202	D-11		
IC204	E-9		
IC302	I-15		
IC303	F-15		
IC306	D-13		
IC307	D-17		
IC308	A-16		
IC401	I-13		
IC403	G-8		
IC601	B-10		
IC807	D-4		
IC810	G-20		
IC811	G-19		
IC812	G-19		
IC820	E-3		

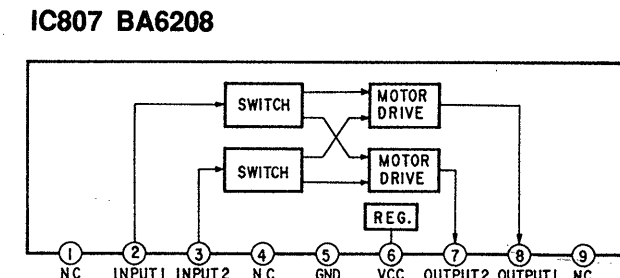
Note:

- : parts extracted from the component side.
- : Through hole.
- : Pattern on the side which is seen.
- : Pattern of the rear side.

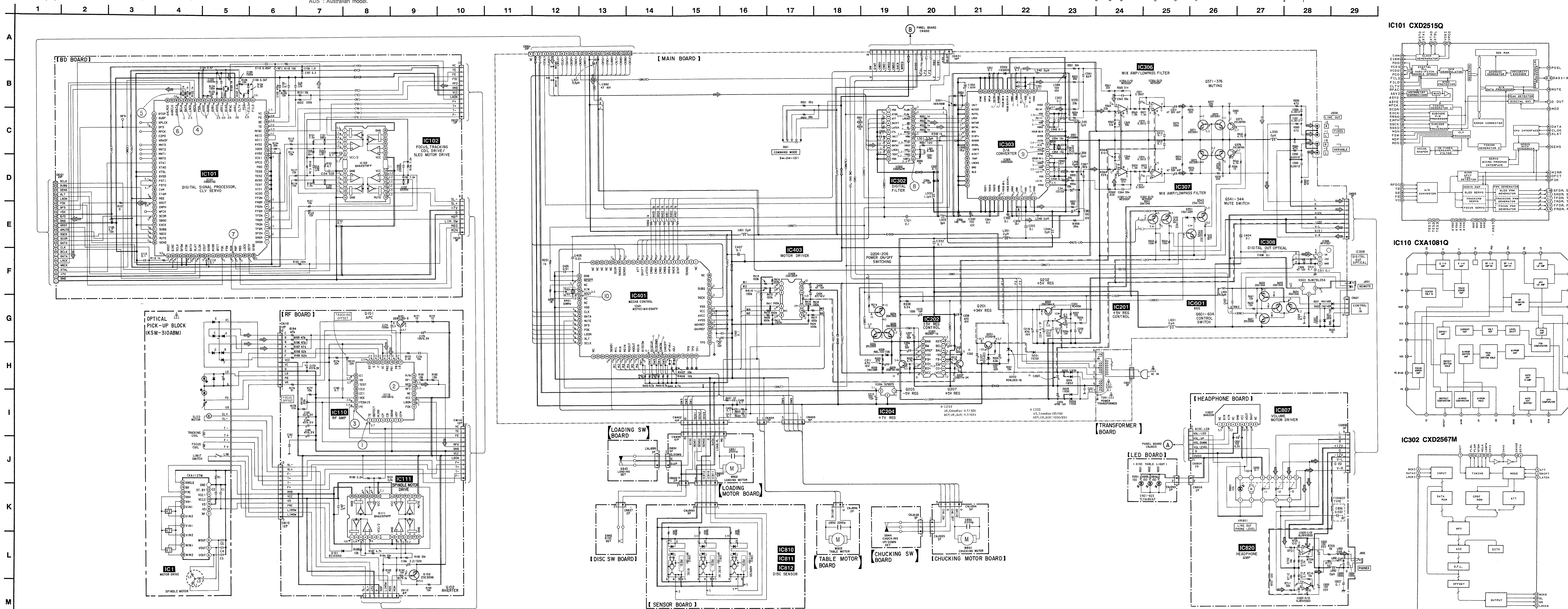


-  : B+ Line
-  : B- Line
-  : adjustment for repair.
- Voltage and waveforms are to be with respect to ground unless no-signal (detuned) conditions.
- no mark: STOP
- Voltages are taken with a VOM (input impedance 10 MΩ).
- Voltage variations may be noted due to normal production tolerances
- Waveforms are taken with an oscilloscope.
- Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 -  : CD
 -  : digital out
- Abbreviation
 - AUS : Australian model.

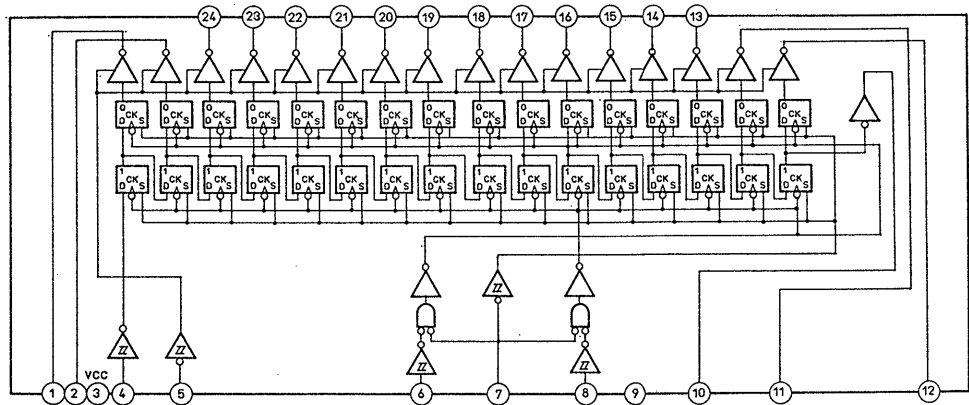
Note:
Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.



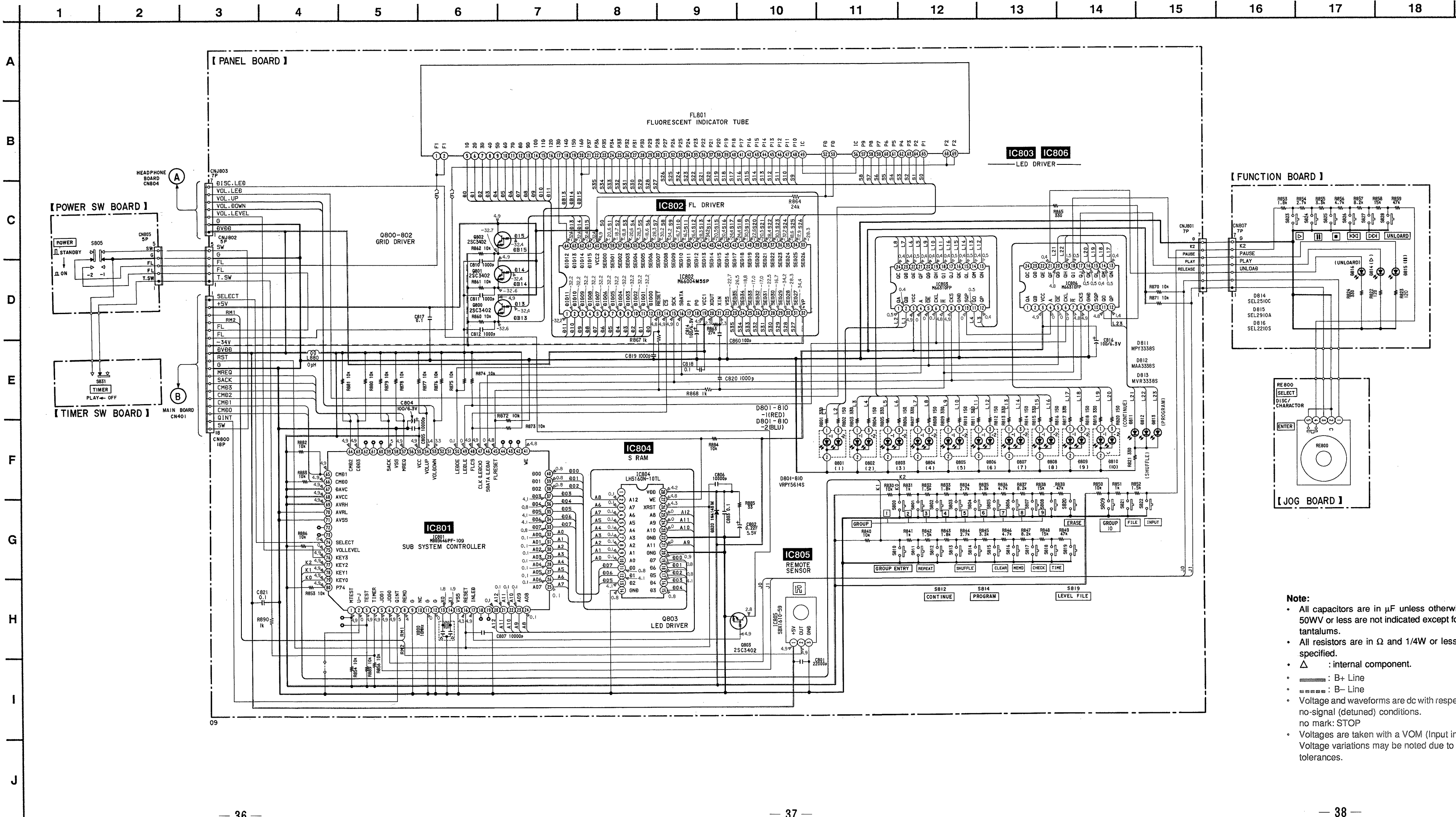
SCHEMATIC DIAGRAM — MAIN SECTION —
• See page 14 for IC Pin Functions. (IC101, 302, 401)



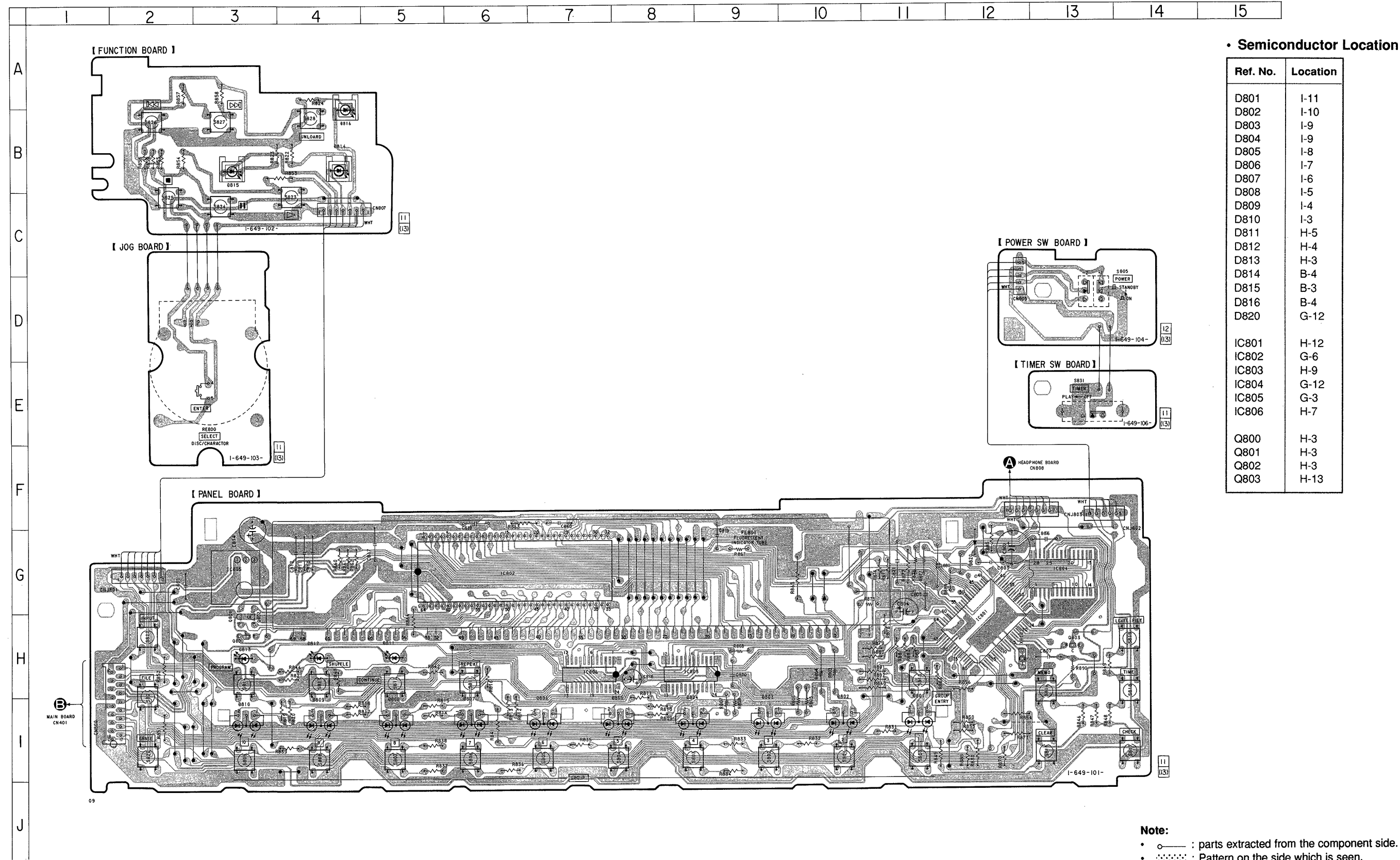
IC803, 806 M66310FP



6-5. SCHEMATIC DIAGRAM — PANEL SECTION —
• See page 20 for IC Pin Functions. (IC801)



6-6. PRINTED WIRING BOARDS — PANEL SECTION —
• See page 22 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
D801	I-11
D802	I-10
D803	I-9
D804	I-8
D805	I-7
D806	I-6
D807	I-5
D808	I-4
D809	I-3
D810	H-5
D811	H-4
D812	H-3
D813	H-2
D814	B-3
D815	B-4
D816	G-12
D820	H-12
IC801	G-6
IC802	G-12
IC803	G-3
IC804	H-7
IC805	H-3
IC806	H-13
Q800	H-3
Q801	H-3
Q802	H-3
Q803	H-13

Note:
• All capacitors are in μF unless otherwise noted. pF unless otherwise noted.
• All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
• Δ : internal component.
• — : B+ Line
• — : B- Line
• Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
• no mark: STOP
• Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.

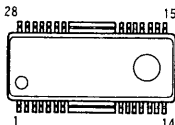
Note:
• — : parts extracted from the component side.
• — : Pattern on the side which is seen.

6-7. SEMICONDUCTOR LEAD LAYOUTS

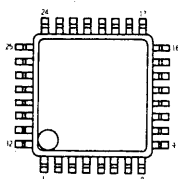
**BA6208
RC4556S**



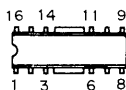
BA6297AFP



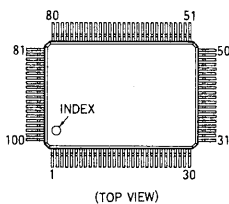
CXA1081Q



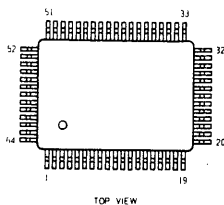
CXA1291P



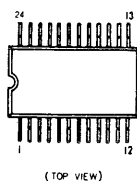
CXD2515Q



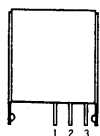
CXD2562Q



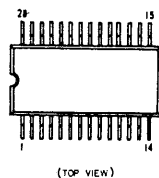
**CXD2567M
M66004M5SP
M66310FP**



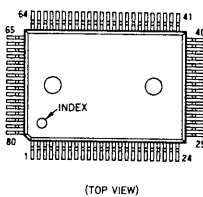
GP1F32T



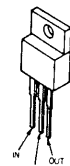
LH5160N-10L



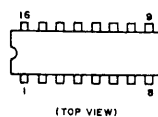
**M37451M4-336FP
MB89646PF-109**



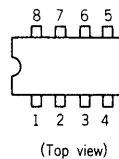
M5F78M07L



M5290P-16



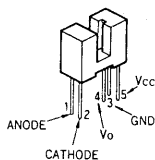
**NE5532P
UPC4558C**



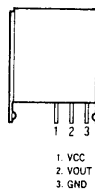
NJM78L05A



RPI-1391



SBX1610-59



2SA916LTP



2SB1122-S



**2SB734-34
2SD774-34**



2SC3396



2SC3623A-LK



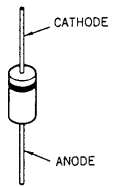
2SD1944-K



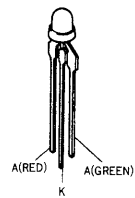
**DTA114ES
DTA144ES
DTC114ES
DTC143TS
DTC144ES**



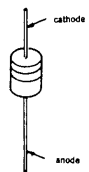
1N4148M



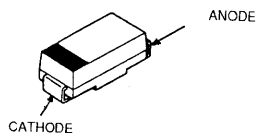
VRPY5614S-1-J22Y



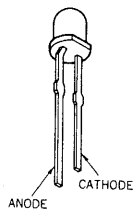
11EQS04
11ES2
RD36ES-B2
RD5.1ES-B2
RD5.6ES-B
RD8.2ES-B2



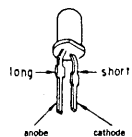
EC10DS2



MAA3338S-J210K
MPY3338S-J210K
MVR3338S-J210K
TLYA180AP



SEL2210S-CD
SEL2510C-D
SEL2910A-CD



SECTION 7

EXPLODED VIEWS

NOTE:

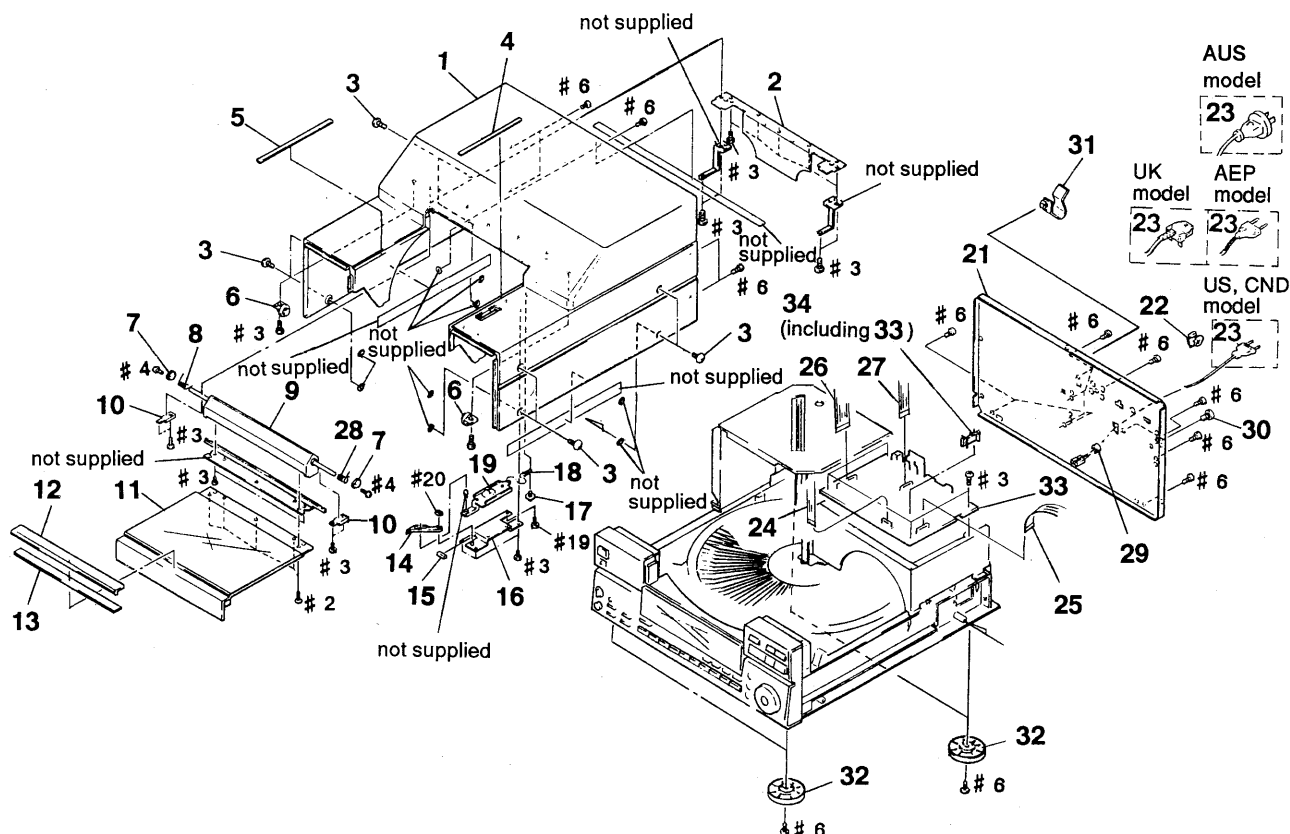
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Abbreviation
CND : Canadian model
AUS : Australian model

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

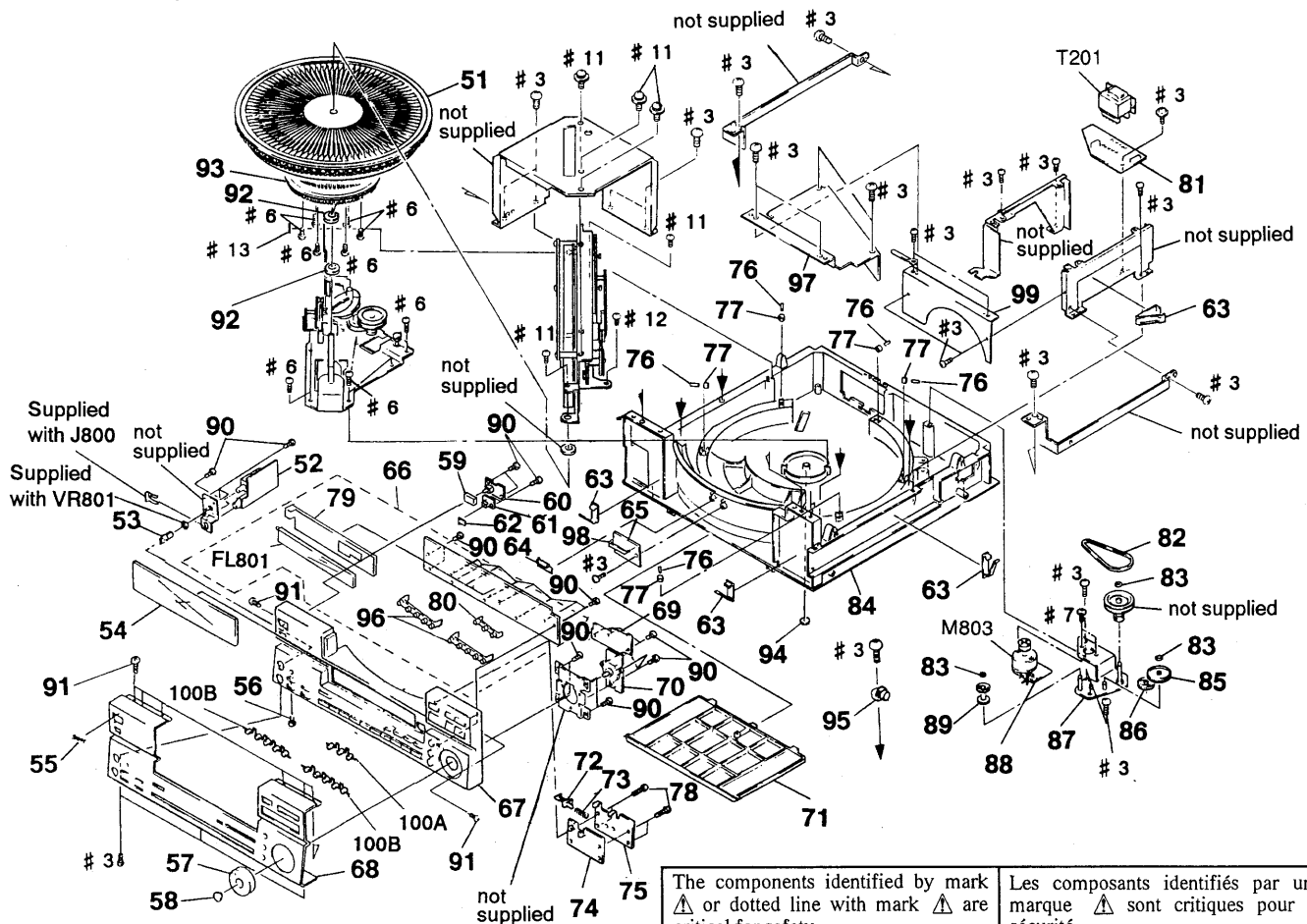
7-1. CASE, MAIN BOARD SECTION



Ref. No.	Part No.	Description
1	4-960-522-01	CASE
2	4-960-938-01	BRACKET (CASE)
3	3-363-099-41	SCREW (CASE 3 TP2)
4	4-960-545-01	CUSHION (D)
5	4-962-284-01	CUSHION (E)
6	4-919-393-51	DAMPER
7	4-960-588-01	GEAR (DAMPER)
8	4-960-584-01	SPRING (L), TORSION
9	4-960-582-01	SHAFT (COVER)
* 10	4-962-191-01	BRACKET (SHAFT)
11	4-960-523-01	COVER
12	4-960-524-01	PANEL (COVER) (CX100)
12	4-960-524-11	PANEL (COVER) (CX100S)
13	4-962-286-01	CUSHION (COVER)
14	4-960-537-01	LEVER (LOCK)
15	4-962-285-01	CUSHION (LOCK)
* 16	X-4943-938-1	BRACKET (KNOB) ASSY
17	4-933-134-01	SCREW (+PTPHW M2. 6X6)
18	4-960-542-01	SPRING, TENSION
19	4-960-538-01	KNOB (LOCK)
* 21	4-960-521-01	PANEL, BACK (CX100:US,CND)
* 21	4-960-521-11	PANEL, BACK (CX100:AEP)

Ref. No.	Part No.	Description	Remark
* 21	4-960-521-21	PANEL, BACK (CX100:UK)	
* 21	4-960-521-31	PANEL, BACK (CX100S)	
* 21	4-960-521-51	PANEL, BACK (CX100:AUS)	
* 22	3-703-244-00	BUSHING (2104), CORD	
	1-558-568-21	CORD, POWER (CX100:AEP)	
	1-590-836-11	CORD, POWER (CX100:US,CND/CX100S)	
	1-696-571-11	CORD, POWER (CX100:UK)	
	1-696-845-11	CORD, POWER (CX100:AUS)	
24	1-751-482-11	WIRE (FLAT TYPE) (10 CORE)	
25	1-751-480-11	WIRE (FLAT TYPE) (18 CORE)	
26	1-751-478-11	WIRE (FLAT TYPE) (23 CORE)	
27	1-751-530-11	WIRE (FLAT TYPE) (9 CORE)	
28	4-960-585-01	SPRING (R), TORSION	
29	1-543-982-11	CORE, FERRITE	
30	4-847-802-00	SCREW	
* 31	4-949-235-01	HOOK (CX100:US,CND,AEP,UK/CX100S)	
32	4-943-148-32	FOOT (F58175SW) (CX100:US,CND/CX100S)	
32	4-943-148-42	FOOT (F58175SW) (CX100:AEP,UK,AUS)	
* 33	A-4649-744-A	MAIN BOARD, COMPLETE (CX100:US,CND/CX100S)	
* 33	A-4649-745-A	MAIN BOARD, COMPLETE (CX100:AEP,UK,AUS)	
* 34	4-908-502-01	HEAT SINK	

7-2. TABLE (ROTARY) SECTION

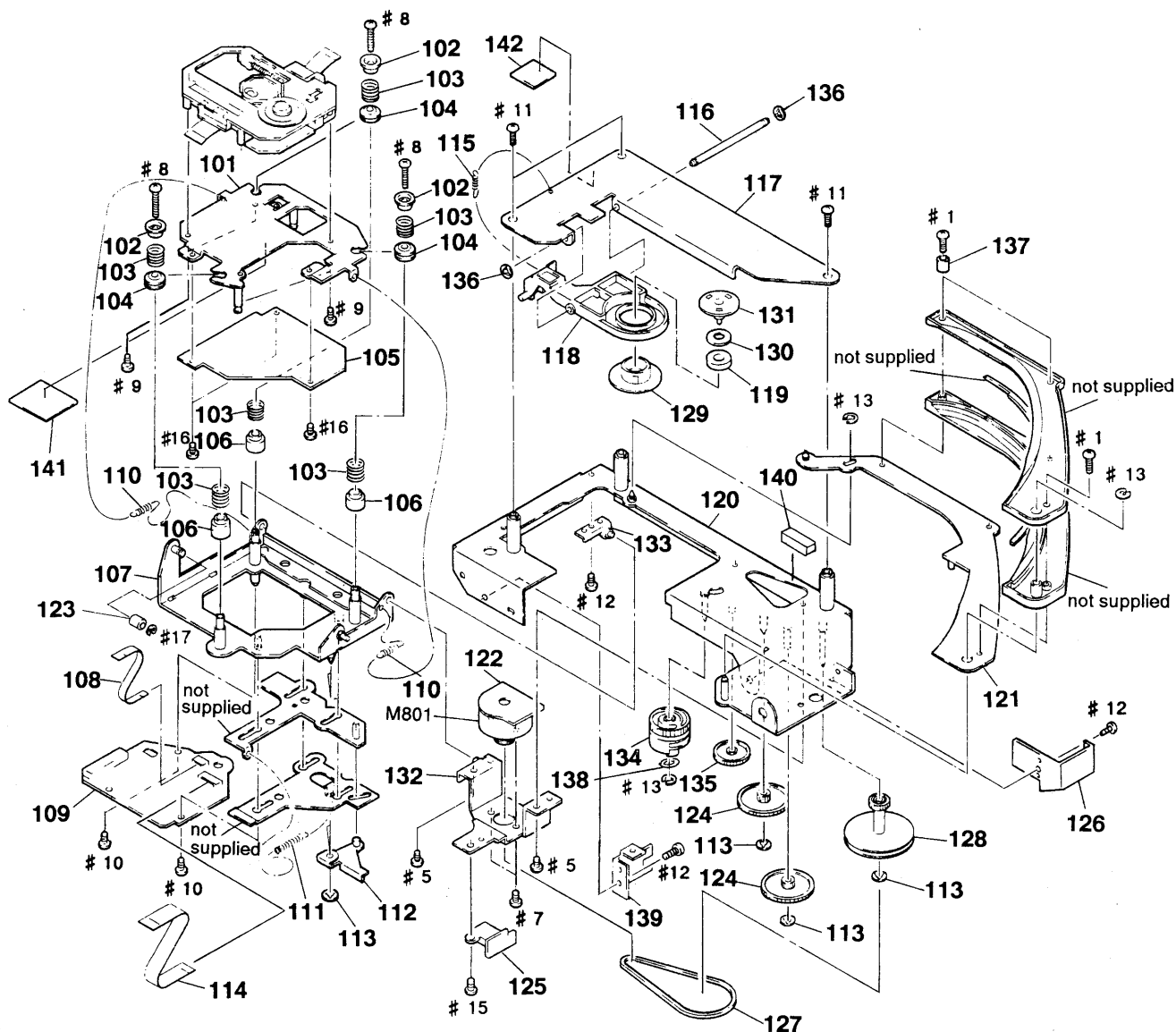


The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

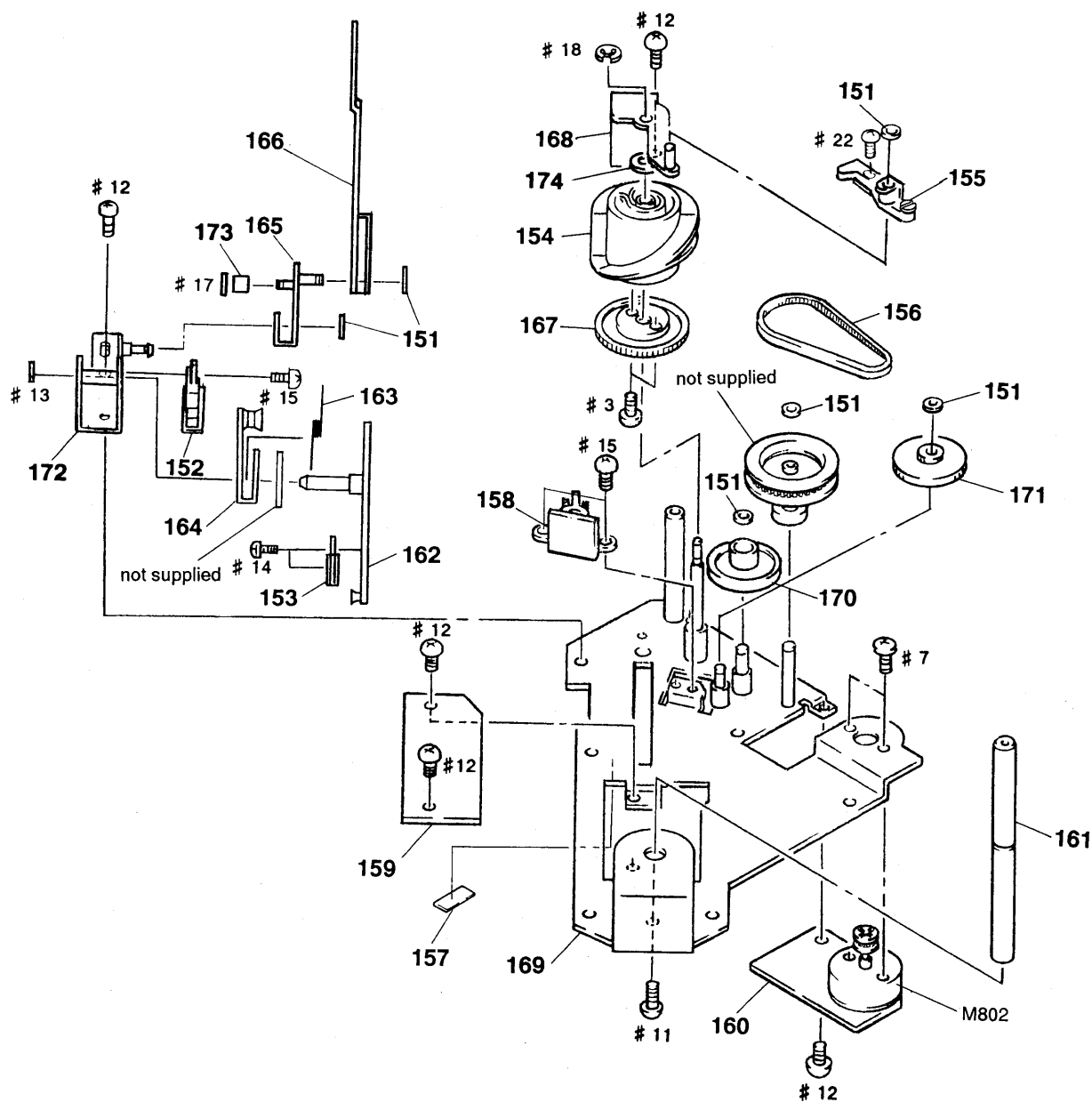
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-960-666-01	TABLE (ROTARY)		78	4-951-620-21	SCREW (2.6X14), +BVTP	
* 52	A-4649-730-A	HEADPHONE BOARD, COMPLETE		79	4-960-501-01	HOLDER (FL TUBE)	
53	A-4660-547-A	KNOB (HDP) ASSY		80	4-960-502-01	HOLDER (LED 3 GANG)	
54	4-960-500-01	WINDOW (FL)		* 81	1-649-114-11	TRANSFORMER BOARD	
55	4-942-568-01	EMBLEM (NO. 5), SONY		82	4-962-822-01	BELT (TIMING)	
				83	3-696-510-01	WASHER (3), STOPPER	
56	3-704-515-21	SCREW (BV/RING)		* 84	4-960-549-04	BASE (BODY)	
57	4-960-510-01	KNOB (JOG)		85	4-960-621-01	GEAR (A)	
58	4-960-509-01	BUTTON (ENTER)		86	4-960-622-01	GEAR (B)	
59	4-922-921-01	BUTTON (POWER)		* 87	X-4943-954-1	BASE (ROTARY) ASSY	
* 60	1-649-104-11	POWER SW BOARD		* 88	1-649-110-11	TABLE MOTOR BOARD	
* 61	1-649-106-11	TIMER SW BOARD		89	4-960-668-01	GEAR (D)	
62	4-922-518-11	KNOB (TIMER)		90	4-951-620-01	SCREW (2.6X8), +BVTP	
* 63	4-966-273-01	CLAMP, FLAT CABLE		91	4-909-982-31	SCREW, TAPPING	
64	4-960-548-01	INDICATOR (BASE)		92	3-701-446-21	WASHER, 8	
* 65	1-649-164-11	LED BOARD		93	4-960-667-01	SENSOR (ROTARY)	
* 66	A-4649-729-A	PANEL BOARD, COMPLETE		94	4-963-598-01	CUSHION (FOOT)	
67	X-4943-930-1	BASE ASSY, PANEL		95	X-4944-217-1	SHAFT (HOLD) ASSY	
68	4-960-497-01	PANEL, FRONT (CX100:US, CND)		96	4-960-503-01	HOLDER (LED 5 GANG)	
68	4-960-497-11	PANEL, FRONT (CX100:AEP, UK, AUS)		* 97	4-962-287-01	COVER (TRANSFORMER)	
68	4-960-497-21	PANEL, FRONT (CX100S)		98	4-962-447-01	COVER (LED)	
* 69	1-649-102-11	FUNCTION BOARD		* 99	4-960-520-01	BRACKET (C)	
* 70	1-649-103-11	JOG BOARD		100A	4-960-498-01	INDICATOR (3 GANG)	
* 71	4-960-550-01	COVER (DUST)		100B	4-960-499-01	INDICATOR (LED 5 GANG)	
72	4-960-525-01	LOCK		FL801	1-517-191-11	INDICATOR TUBE, FLUORESCENT	
73	4-960-535-01	SPRING, COMPRESSION		M803	A-4604-834-A	MOTOR ASSY, TABLE	
74	4-960-536-01	HOLDER (LOCK)		 T201	1-423-781-11	TRANSFORMER, POWER (CX100:US, CND/CX100S)	
* 75	4-960-534-01	BRACKET (LOCK)		 T201	1-423-782-11	TRANSFORMER, POWER (CX100:AEP, UK, AUS)	
76	4-934-376-01	SHAFT (ROLLER)					
77	X-4924-457-1	ROLLER ASSY					

7-3. CD MECHANISM SECTION 1 (CDM-30)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 101	X-4943-942-1	BASE (BU) ASSY		123	4-963-590-02	ROLLER (FULCRUM PLATE BU)	
102	4-960-617-01	CAP (F)		124	4-960-621-01	GEAR (A)	
103	4-960-618-01	SPRING (F), COMPRESSION		* 125	1-649-112-11	CHUCKING SW BOARD	
104	4-960-615-01	DAMPER (F)					
* 105	A-4649-728-A	RF BOARD, COMPLETE		126	4-962-829-02	COVER (G.P)	
106	4-960-616-01	COLLAR (F)		127	4-962-822-01	BELT (TIMING)	
* 107	X-4943-941-1	PLATE (BU) ASSY, FULCRUM		128	X-4944-234-1	GEAR (PULLEY) ASSY	
108	1-751-481-11	WIRE (FLAT TYPE) (8 CORE)		129	4-960-631-01	PULLEY (A)	
* 109	A-4649-727-A	BD BOARD, COMPLETE		130	4-960-633-01	YOKE (MAGNET)	
110	4-960-619-01	SPRING (F), TENSION					
111	4-960-626-01	SPRING (F LOCK), TENSION		131	4-960-632-01	PULLEY (B)	
* 112	X-4943-943-1	LEVER (F LOCK) ASSY		* 132	X-4943-944-1	PLATE (R) ASSY, FULCRUM	
113	3-696-510-01	WASHER (3), STOPPER		* 133	X-4943-945-1	PLATE (L) ASSY, FULCRUM	
114	1-751-479-11	WIRE (FLAT TYPE) (12 CORE)		134	4-960-623-01	CAM (CHUCKING)	
115	4-960-635-01	SPRING (C), TENSION		135	4-960-622-01	GEAR (B)	
116	4-960-634-01	SHAFT (Q)					
* 117	4-960-637-01	BASE (CHUCKING)		136	3-669-596-01	WASHER (2.3), STOPPER	
118	4-960-630-01	ARM, CHUCKING		137	4-885-848-01	SPACER	
119	3-366-559-11	MAGNET (CHUCK)		138	3-701-441-01	WASHER	
* 120	X-4943-940-1	BASE (MD) ASSY		139	4-962-825-01	LIMITER (BU)	
121	X-4943-946-1	GUIDE (A) ASSY		140	3-831-441-XX	CUSHION	
* 122	1-649-108-11	CHUCKING MOTOR BOARD					
				141	4-967-084-01	CUSHION (KSM)	
				142	9-911-863-XX	INSULATOR	
				M801	A-4604-834-A	MOTOR ASSY, CHUCKING	

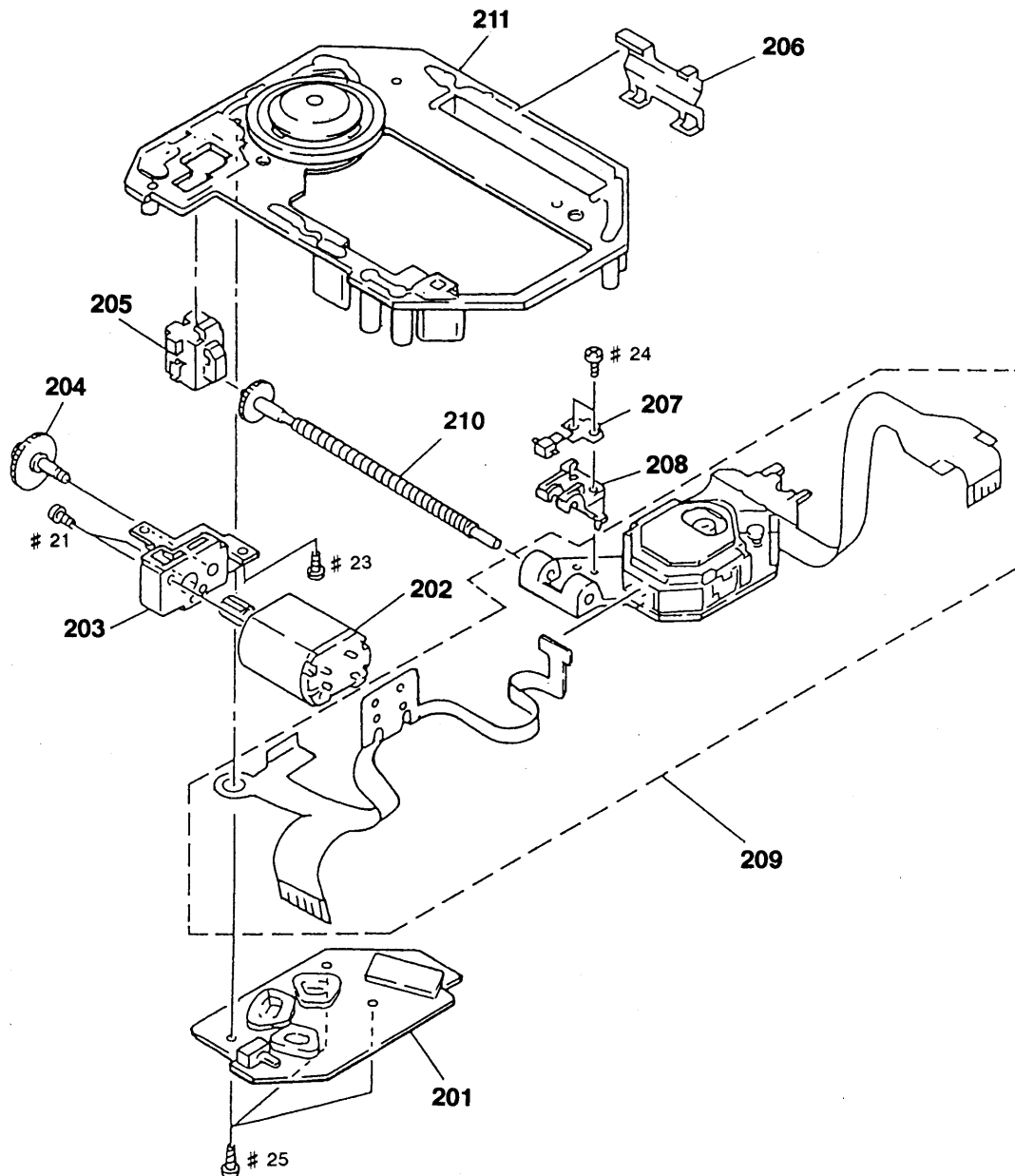
7-4. CD MECHANISM SECTION 2
(CDM-30)



Ref.No.	Part No.	Description
151	3-696-510-01	WASHER (3), STOPPER
* 152	1-649-111-11	DISK SW BOARD
* 153	4-960-663-01	GUIDE (DISK)
154	4-960-660-01	CAM (LOADING)
155	X-4944-380-1	HOLDER (T LOCK) ASSY
156	4-962-822-01	BELT (TIMING)
157	3-831-441-XX	CUSHION
* 158	1-649-113-11	LOADING SW BOARD
* 159	1-649-107-11	SENSOR BOARD
* 160	1-649-109-11	LOADING MOTOR BOARD
* 161	4-960-665-01	SHAFT (CENTER)
* 162	X-4943-949-1	LEVER (R) ASSY
163	4-962-522-01	SPRING (TOGGLE)

Remark	Ref.No.	Part No.	Description	Remark
	* 164	X-4943-951-1	LEVER (L) ASSY	
	* 165	X-4943-952-1	LEVER (G) ASSY	
	* 166	4-960-662-01	LEVER (LINK)	
	167	4-962-523-01	GEAR (E)	
	168	X-4943-947-1	HOLDER (CAM) ASSY	
	* 169	X-4943-953-1	BASE (LOADING) ASSY	
	170	4-960-659-01	GEAR (C)	
	171	4-960-621-01	GEAR (A)	
	* 172	X-4943-948-1	HOLDER (LEVER) ASSY	
	173	4-963-014-01	ROLLER (LEVER G)	
	174	3-701-444-01	WASHER, 6	
	M802	A-4604-834-A	MOTOR ASSY, LOADING	

7-5. BASE UNIT SECTION (KSM-310ABM)



The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
201	8-835-456-01	MOTOR, DC SSC-02E01S
202	X-2625-210-1	GEAR ASSY, SLED MOTOR
* 203	2-625-513-01	BASE, DRIVING
204	2-625-507-01	GEAR (B2)
* 205	A-4910-348-B	RETAINER ASSY, THRUST
* 206	2-625-514-01	COVER, FLEXIBLE

Remark	Ref.No.	Part No.	Description	Remark
	207	2-625-516-01	SPRING (A), FEED	
	208	2-625-515-01	RACK (AT)	
	 209	8-848-178-11	OPTICAL PICK-UP BLOCK KSS-310A	
	210	X-2625-209-1	SCREW ASSY, SLED	
	211	X-2625-641-1	OMD CHASSIS ASSY	

ELECTRICAL PARTS LIST

NOTE:

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

• Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• -XX, -X mean standardized parts, so they may have some difference from the original one.

• Color Indication of Appearance Parts Example:
KNOB, BALANCE (WHITE) ... (RED)

↑ ↑
Parts color Cabinet's color

• Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

• RESISTORS

All resistors are in ohms

METAL: Metal-film resistor

METAL OXIDE: Metal Oxide-film resistor

F: nonflammable

• SEMICONDUCTORS

In each case, u: μ , for example:

uA...: μ A..., uPA...: μ PA..., uPB...: μ PB...,

uPC...: μ PC..., uPD...: μ PD...

• CAPACITORS

uF: μ F

• COILS

uH: μ H

• Abbreviation

CND: Canadian model

AUS: Australian model

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
*	A-4649-727-A	BD BOARD, COMPLETE *****		R106	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
	< CAPACITOR >			R107	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
C101	1-163-005-11	CERAMIC CHIP 470PF 10% 50V		R108	1-216-073-00	METAL CHIP 10K 5% 1/10W	
C102	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R109	1-216-121-00	METAL CHIP 1M 5% 1/10W	
C103	1-163-005-11	CERAMIC CHIP 470PF 10% 50V		R110	1-216-025-00	METAL CHIP 100 5% 1/10W	
C105	1-135-155-21	TANTALUM CHIP 4.7uF 10% 16V		R112	1-216-049-00	METAL CHIP 1K 5% 1/10W	
C106	1-164-346-11	CERAMIC CHIP 1uF 16V		R113	1-216-077-00	METAL CHIP 15K 5% 1/10W	
C107	1-164-505-11	CERAMIC CHIP 2.2uF 16V		R114	1-216-077-00	METAL CHIP 15K 5% 1/10W	
C108	1-163-035-00	CERAMIC CHIP 0.047uF 50V		R117	1-216-077-00	METAL CHIP 15K 5% 1/10W	
C109	1-163-011-11	CERAMIC CHIP 0.0015uF 10% 50V		R118	1-216-077-00	METAL CHIP 15K 5% 1/10W	
C110	1-163-017-00	CERAMIC CHIP 0.0047uF 5% 50V		R121	1-216-077-00	METAL CHIP 15K 5% 1/10W	
C111	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		R122	1-216-077-00	METAL CHIP 15K 5% 1/10W	
C112	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R123	1-216-073-00	METAL CHIP 10K 5% 1/10W	
C113	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R124	1-216-097-00	METAL CHIP 100K 5% 1/10W	
C123	1-164-232-11	CERAMIC CHIP 0.01uF 50V		R125	1-216-049-00	METAL CHIP 1K 5% 1/10W	
C124	1-164-005-11	CERAMIC CHIP 0.47uF 25V		R126	1-216-049-00	METAL CHIP 1K 5% 1/10W	
C151	1-163-007-11	CERAMIC CHIP 680PF 10% 50V		R127	1-216-049-00	METAL CHIP 1K 5% 1/10W	
C152	1-163-007-11	CERAMIC CHIP 680PF 10% 50V		R131	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C153	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R151	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	
C154	1-164-336-11	CERAMIC CHIP 0.33uF 25V		R152	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	
C155	1-163-007-11	CERAMIC CHIP 680PF 10% 50V		R153	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	
C156	1-163-007-11	CERAMIC CHIP 680PF 10% 50V		R154	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	
C157	1-163-033-00	CERAMIC CHIP 0.022uF 50V		R155	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	
C158	1-163-033-00	CERAMIC CHIP 0.022uF 50V		R156	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	
C161	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R161	1-216-308-00	METAL CHIP 4.7 5% 1/10W	
	< CONNECTOR >			*****			
* CN101	1-568-865-11	SOCKET, CONNECTOR 23P		* 1-649-108-11	CHUCKING MOTOR BOARD		
CN102	1-568-794-11	SOCKET, CONNECTOR 12P		*****			
* CN103	1-580-469-11	SOCKET, CONNECTOR 8P		< CAPACITOR >			
	< IC >			C850	1-161-375-00	CERAMIC 0.0022uF 20% 50V	
IC101	8-752-351-94	IC CXD2515Q		< MOTOR >			
IC102	8-759-071-79	IC BA6297AFP		M801	A-4604-834-A	MOTOR ASSY (CHUCKING)	
	< RESISTOR >			*****			
R101	1-216-077-00	METAL CHIP 15K 5% 1/10W		* 1-649-112-11	CHUCKING SW BOARD		
R102	1-216-097-00	METAL CHIP 100K 5% 1/10W		*****			
R103	1-216-077-00	METAL CHIP 15K 5% 1/10W		< SWITCH >			
R104	1-216-085-00	METAL CHIP 33K 5% 1/10W		S844	1-571-300-21	SWITCH, ROTARY (CHUCKING UP/DOWN DET)	
R105	1-216-097-00	METAL CHIP 100K 5% 1/10W		*****			

DISK SW

FUNCTION

HEADPHONE

JOG

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
*	1-649-111-11	DISK SW BOARD *****		C837	1-164-159-11	CERAMIC 0.1uF 50V	
		< SWITCH >				< CONNECTOR >	
S842	1-571-300-21	SWITCH, ROTARY (DISC DET)		* CN804	1-568-934-11	PIN, CONNECTOR 7P	
*****				* CN806	1-568-852-11	SOCKET, CONNECTOR 9P	
				CN808	1-506-481-11	PIN, CONNECTOR 2P	
						< IC >	
*	1-649-102-11	FUNCTION BOARD *****		IC807	8-759-962-08	IC BA6208	
		< CONNECTOR >		IC820	8-759-981-89	IC RC456S	
* CN807	1-568-945-11	PIN, CONNECTOR 7P				< JACK >	
		< DIODE >		J800	1-750-162-61	JACK (LARGE TYPE) (PHONES)	
D814	8-719-303-02	DIODE SEL2510C-D (>)				< COIL >	
D815	8-719-313-46	DIODE SEL2910A-CD (II)		L890	1-412-473-21	INDUCTOR 0uH	
D816	8-719-313-43	DIODE SEL2210S-CD (UNLOAD)		L891	1-412-473-21	INDUCTOR 0uH	
		< RESISTOR >		L892	1-412-473-21	INDUCTOR 0uH	
R822	1-249-406-11	CARBON 120 5% 1/4W F				< RESISTOR >	
R823	1-249-406-11	CARBON 120 5% 1/4W F		R701	1-249-435-11	CARBON 33K 5% 1/4W	
R824	1-249-411-11	CARBON 330 5% 1/4W		R702	1-249-432-11	CARBON 18K 5% 1/4W	
R853	1-249-420-11	CARBON 1.8K 5% 1/4W F		R703	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R854	1-249-422-11	CARBON 2.7K 5% 1/4W F		R704	1-249-429-11	CARBON 10K 5% 1/4W	
R855	1-249-423-11	CARBON 3.3K 5% 1/4W F		R705	1-249-402-11	CARBON 56 5% 1/4W F	
R856	1-249-425-11	CARBON 4.7K 5% 1/4W F		R711	1-249-435-11	CARBON 33K 5% 1/4W	
R857	1-249-428-11	CARBON 8.2K 5% 1/4W F		R712	1-249-432-11	CARBON 18K 5% 1/4W	
R858	1-249-431-11	CARBON 15K 5% 1/4W		R713	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R859	1-249-437-11	CARBON 47K 5% 1/4W		R714	1-249-429-11	CARBON 10K 5% 1/4W	
		< SWITCH >		R715	1-249-402-11	CARBON 56 5% 1/4W F	
S823	1-554-303-21	SWITCH, TACTILE (>)		R720	1-247-807-31	CARBON 100 5% 1/4W	
S824	1-554-303-21	SWITCH, TACTILE (II)		R721	1-247-807-31	CARBON 100 5% 1/4W	
S825	1-554-303-21	SWITCH, TACTILE (III)				< VARIABLE RESISTOR >	
S826	1-554-303-21	SWITCH, TACTILE (II<<)		VR801	1-241-917-11	RES, VAR, CARBON 10K/10K/10K (LINE OUT/PHONE LEVEL)	
S827	1-554-303-21	SWITCH, TACTILE (>>I)		*****			
S828	1-554-303-21	SWITCH, TACTILE (UNLOAD)					
*****				*	1-649-103-11	JOG BOARD *****	
*	A-4649-730-A	HEADPHONE BOARD, COMPLETE *****				< SWITCH >	
		< CAPACITOR >		RE800	1-692-615-11	SWITCH, JOG (SELECT/ENTER)	
C830	1-164-159-11	CERAMIC 0.1uF 50V		*****			
C831	1-126-177-11	ELECT 100uF 20% 10V					
C832	1-124-478-11	ELECT 100uF 20% 25V					
C833	1-124-478-11	ELECT 100uF 20% 25V					
C834	1-162-294-31	CERAMIC 0.001uF 10% 50V					
C835	1-162-294-31	CERAMIC 0.001uF 10% 50V					

LED

LOADING MOTOR

LOADING SW

MAIN

Ref.No.	Part No.	Description	Remark
*	1-649-164-11	LED BOARD *****	
	4-962-447-01	COVER (LED)	
		< DIODE >	
D821	8-719-045-38	DIODE TLYA180AP (DISC TABLE LIGHT)	
D822	8-719-045-38	DIODE TLYA180AP (DISC TABLE LIGHT)	
D823	8-719-045-38	DIODE TLYA180AP (DISC TABLE LIGHT)	
		< RESISTOR >	
R891	1-247-811-31	CARBON 150 5% 1/4W	
R895	1-247-811-31	CARBON 150 5% 1/4W	
R896	1-247-811-31	CARBON 150 5% 1/4W	

*	1-649-109-11	LOADING MOTOR BOARD *****	
		< CAPACITOR >	
C851	1-161-375-00	CERAMIC 0.0022uF 20% 50V	
		< CONNECTOR >	
* CN891	1-568-941-11	PIN, CONNECTOR 3P	
CN892	1-506-481-11	PIN, CONNECTOR 2P	
* CN893	1-568-943-11	PIN, CONNECTOR 5P	
* CN895	1-568-829-11	SOCKET, CONNECTOR 10P	
		< MOTOR >	
M802	A-4604-834-A	MOTOR ASSY (LOADING)	

*	1-649-113-11	LOADING SW BOARD *****	
		< SWITCH >	
S843	1-571-300-21	SWITCH, ROTARY (LOADING DET)	

*	A-4649-744-A	MAIN BOARD, COMPLETE ***** (CX100:US, CND/CX100S)	
*	A-4649-745-A	MAIN BOARD, COMPLETE (CX100:AEP, UK, AUS) *****	
*	4-908-502-01	HEAT SINK	
	7-685-646-81	SCREW +BVTP 3X8 TYPE2	

Ref.No.	Part No.	Description	Remark
		< CAPACITOR >	
C201	1-124-572-11	ELECT 100uF 20% 63V	
C202	1-126-163-11	ELECT 4.7uF 20% 50V	
		(CX100:US, CND/CX100S)	
C202	1-126-875-51	ELECT 4.7uF 20% 63V	
		(CX100:AEP, UK, AUS)	
C203	1-124-360-00	ELECT 1000uF 20% 16V	
		(CX100:US, CND/CX100S)	
C203	1-126-027-11	ELECT 1000uF 20% 25V	
		(CX100:AEP, UK, AUS)	
C204	1-126-937-11	ELECT 4700uF 20% 16V	
C205	1-126-163-11	ELECT 4.7uF 20% 50V	
C206	1-126-059-11	ELECT 10uF 20% 50V	
C207	1-126-059-11	ELECT 10uF 20% 50V	
C208	1-126-012-11	ELECT 470uF 20% 16V	
C209	1-136-165-00	FILM 0.1uF 5% 50V	
C210	1-126-101-11	ELECT 100uF 20% 16V	
C211	1-126-012-11	ELECT 470uF 20% 16V	
C212	1-136-165-00	FILM 0.1uF 5% 50V	
C213	1-126-023-11	ELECT 100uF 20% 16V	
C214	1-136-165-00	FILM 0.1uF 5% 50V	
C215	1-124-360-00	ELECT 1000uF 20% 16V	
C216	1-126-012-11	ELECT 470uF 20% 16V	
C221	1-164-159-11	CERAMIC 0.1uF 50V	
C308	1-164-159-11	CERAMIC 0.1uF 50V	
C309	1-126-022-11	ELECT 47uF 20% 16V	
C310	1-164-159-11	CERAMIC 0.1uF 50V	
C311	1-164-159-11	CERAMIC 0.1uF 50V	
C320	1-164-159-11	CERAMIC 0.1uF 50V	
C321	1-164-159-11	CERAMIC 0.1uF 50V	
C331	1-162-208-31	CERAMIC 24PF 5% 50V	
C333	1-162-205-31	CERAMIC 18PF 5% 50V	
C336	1-126-022-11	ELECT 47uF 20% 16V	
C337	1-164-159-11	CERAMIC 0.1uF 50V	
C340	1-124-994-11	ELECT 100uF 20% 10V	
C341	1-136-165-00	FILM 0.1uF 5% 50V	
C343	1-136-165-00	FILM 0.1uF 5% 50V	
C345	1-136-165-00	FILM 0.1uF 5% 50V	
C346	1-136-165-00	FILM 0.1uF 5% 50V	
C348	1-136-165-00	FILM 0.1uF 5% 50V	
C349	1-124-994-11	ELECT 100uF 20% 10V	
C350	1-126-301-11	ELECT 1uF 20% 50V	
C351	1-136-165-00	FILM 0.1uF 5% 50V	
C352	1-164-159-11	CERAMIC 0.1uF 50V	
C353	1-162-199-31	CERAMIC 10PF 5% 50V	
C354	1-162-199-31	CERAMIC 10PF 5% 50V	
C355	1-164-159-11	CERAMIC 0.1uF 50V	
C356	1-124-994-11	ELECT 100uF 20% 10V	
C358	1-136-169-00	FILM 0.22uF 5% 50V	
C360	1-136-165-00	FILM 0.1uF 5% 50V	

Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description	Remark
C361	1-162-280-31	CERAMIC	82PF	10%	50V	< DIODE >			
C362	1-136-165-00	FILM	0.1uF	5%	50V	D201	8-719-200-82	DIODE	11ES2
C363	1-162-213-31	CERAMIC	39PF	5%	50V	D202	8-719-110-08	DIODE	RD8. 2ES-B2
C364	1-162-213-31	CERAMIC	39PF	5%	50V	D203	8-719-200-82	DIODE	11ES2
C365	1-162-213-31	CERAMIC	39PF	5%	50V	D204	8-719-200-82	DIODE	11ES2
C366	1-162-213-31	CERAMIC	39PF	5%	50V	D205	8-719-200-82	DIODE	11ES2
C367	1-162-280-31	CERAMIC	82PF	10%	50V	D206	8-719-200-82	DIODE	11ES2
C371	1-106-359-00	MYLAR	4700PF	5%	200V	D207	8-719-114-10	DIODE	RD36ES-B2
C372	1-106-359-00	MYLAR	4700PF	5%	200V	D208	8-719-109-85	DIODE	RD5. 1ES-B2
C373	1-130-472-00	MYLAR	0.0012uF	5%	50V	D209	8-719-987-63	DIODE	1N4148M
C374	1-130-472-00	MYLAR	0.0012uF	5%	50V	D301	8-719-987-63	DIODE	1N4148M
C377	1-124-910-11	ELECT	47uF	20%	50V	D302	8-719-210-21	DIODE	11EQS04
C378	1-124-910-11	ELECT	47uF	20%	50V	D351	8-719-987-63	DIODE	1N4148M
C381	1-136-165-00	FILM	0.1uF	5%	50V	D601	8-719-987-63	DIODE	1N4148M
C382	1-136-165-00	FILM	0.1uF	5%	50V	D602	8-719-987-63	DIODE	1N4148M
C383	1-124-994-11	ELECT	100uF	20%	10V	D603	8-719-109-87	DIODE	RD5. 6ES-B
C384	1-124-994-11	ELECT	100uF	20%	10V	< IC >			
C390	1-130-472-00	MYLAR	0.0012uF	5%	50V	IC201	8-759-145-58	IC	uPC4558C
C391	1-130-472-00	MYLAR	0.0012uF	5%	50V	IC202	8-759-630-21	IC	M5290P-16
C392	1-130-472-00	MYLAR	0.0012uF	5%	50V	IC204	8-759-605-00	IC	M5F78M07L
C393	1-130-472-00	MYLAR	0.0012uF	5%	50V	IC302	8-752-356-03	IC	CXD2567M
C401	1-126-022-11	ELECT	47uF	20%	16V	IC303	8-759-044-10	IC	CXD2562Q
C402	1-164-159-11	CERAMIC	0.1uF		50V	IC306	8-759-900-72	IC	NE5532P
C403	1-126-022-11	ELECT	47uF	20%	16V	IC307	8-759-900-72	IC	NE5532P
C404	1-126-022-11	ELECT	47uF	20%	16V	IC308	8-749-921-12	IC	GP1F32T (DIGITAL OUT OPTICAL)
C405	1-162-306-11	CERAMIC	0.01uF	20%	16V	IC401	8-759-256-31	IC	M37451M4-336FP
C406	1-162-306-11	CERAMIC	0.01uF	20%	16V	IC403	8-759-821-32	IC	CXA1291P
C407	1-164-159-11	CERAMIC	0.1uF		50V	IC601	8-759-708-05	IC	NJM78L05A
C408	1-164-159-11	CERAMIC	0.1uF		50V	< JACK >			
C409	1-164-159-11	CERAMIC	0.1uF		50V	J390	1-569-443-21	JACK, PIN 4P (LINE OUT)	
C410	1-164-159-11	CERAMIC	0.1uF		50V	J601	1-695-473-11	JACK (EARPHONE) (REMOTE)	
C601	1-162-306-11	CERAMIC	0.01uF	20%	16V	< COIL >			
C602	1-164-159-11	CERAMIC	0.1uF		50V	L301	1-412-297-11	INDUCTOR	3.3uH
C603	1-164-159-11	CERAMIC	0.1uF		50V	L302	1-410-397-21	FERRITE BEAD INDUCTOR	
C604	1-164-159-11	CERAMIC	0.1uF		50V	L331	1-410-322-11	INDUCTOR	3.3uH
C912	1-136-165-00	FILM	0.1uF	5%	50V	L343	1-412-473-21	INDUCTOR	0uH
C913	1-136-165-00	FILM	0.1uF	5%	50V	L344	1-412-473-21	INDUCTOR	0uH
C992	1-126-022-11	ELECT	47uF	20%	16V	L345	1-412-473-21	INDUCTOR	0uH
< CONNECTOR >						L346	1-412-473-21	INDUCTOR	0uH
CN203	1-564-510-11	PLUG, CONNECTOR 7P				L348	1-412-473-21	INDUCTOR	0uH
CN401	1-568-468-11	SOCKET, CONNECTOR 18P				L350	1-412-473-21	INDUCTOR	0uH
* CN402	1-568-829-11	SOCKET, CONNECTOR 10P				L351	1-412-473-21	INDUCTOR	0uH
* CN403	1-568-954-11	PIN, CONNECTOR 5P				L358	1-412-473-21	INDUCTOR	0uH
* CN404	1-568-951-11	PIN, CONNECTOR 2P				L401	1-412-473-21	INDUCTOR	0uH
CN601	1-566-213-11	PIN, CONNECTOR 4P (CONTROL S IN)				L601	1-412-473-21	INDUCTOR	0uH
* CN903	1-568-828-11	SOCKET, CONNECTOR 9P				L901	1-412-297-11	INDUCTOR	3.3uH
* CN904	1-568-839-11	SOCKET, CONNECTOR 23P				L903	1-412-473-21	INDUCTOR	0uH

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
L904	1-410-322-11	INDUCTOR 3. 3uH		R346	1-249-425-11	CARBON 4. 7K 5% 1/4W F	
	< TRANSISTOR >			R347	1-249-441-11	CARBON 100K 5% 1/4W	
Q201	8-729-803-76	TRANSISTOR 2SA916LTP		R350	1-249-393-11	CARBON 10 5% 1/4W F	
Q202	8-729-905-67	TRANSISTOR 2SD1944-K		R351	1-249-436-11	CARBON 39K 5% 1/4W	
Q203	8-729-140-97	TRANSISTOR 2SB734-34		R352	1-249-436-11	CARBON 39K 5% 1/4W	
Q204	8-729-900-65	TRANSISTOR DTA144ES		R353	1-249-436-11	CARBON 39K 5% 1/4W	
Q205	8-729-900-89	TRANSISTOR DTC144ES		R354	1-249-436-11	CARBON 39K 5% 1/4W	
Q206	8-729-900-89	TRANSISTOR DTC144ES		R355	1-249-436-11	CARBON 39K 5% 1/4W	
Q207	8-729-140-96	TRANSISTOR 2SD774-34		R356	1-249-436-11	CARBON 39K 5% 1/4W	
Q341	8-729-900-61	TRANSISTOR DTA114ES		R357	1-249-436-11	CARBON 39K 5% 1/4W	
Q342	8-729-900-61	TRANSISTOR DTA114ES		R358	1-249-436-11	CARBON 39K 5% 1/4W	
Q343	8-729-900-65	TRANSISTOR DTA144ES		R359	1-247-848-11	CARBON 5. 1K 5% 1/4W	
Q344	8-729-900-89	TRANSISTOR DTC144ES		R361	1-249-433-11	CARBON 22K 5% 1/4W	
Q371	8-729-900-74	TRANSISTOR DTC143TS		R362	1-249-433-11	CARBON 22K 5% 1/4W	
Q372	8-729-900-74	TRANSISTOR DTC143TS		R363	1-249-433-11	CARBON 22K 5% 1/4W	
Q373	8-729-900-74	TRANSISTOR DTC143TS		R364	1-249-433-11	CARBON 22K 5% 1/4W	
Q374	8-729-900-74	TRANSISTOR DTC143TS		R365	1-247-872-11	CARBON 51K 5% 1/4W	
Q375	8-729-141-30	TRANSISTOR 2SC3623A-LK		R366	1-247-872-11	CARBON 51K 5% 1/4W	
Q376	8-729-141-30	TRANSISTOR 2SC3623A-LK		R367	1-247-872-11	CARBON 51K 5% 1/4W	
Q601	8-729-900-89	TRANSISTOR DTC144ES		R368	1-247-872-11	CARBON 51K 5% 1/4W	
Q602	8-729-900-61	TRANSISTOR DTA114ES		R369	1-249-419-11	CARBON 1. 5K 5% 1/4W F	
Q603	8-729-900-61	TRANSISTOR DTA114ES		R370	1-249-419-11	CARBON 1. 5K 5% 1/4W F	
Q604	8-729-900-61	TRANSISTOR DTA114ES		R371	1-249-419-11	CARBON 1. 5K 5% 1/4W F	
	< RESISTOR >			R372	1-249-419-11	CARBON 1. 5K 5% 1/4W F	
R201	1-249-429-11	CARBON 10K 5% 1/4W		R373	1-247-891-00	CARBON 330K 5% 1/4W	
R202	1-249-423-11	CARBON 3. 3K 5% 1/4W F		R374	1-247-891-00	CARBON 330K 5% 1/4W	
R204	1-249-417-11	CARBON 1K 5% 1/4W F		R375	1-249-409-11	CARBON 220 5% 1/4W F	
R205	1-249-425-11	CARBON 4. 7K 5% 1/4W F		R376	1-249-409-11	CARBON 220 5% 1/4W F	
R206	1-249-429-11	CARBON 10K 5% 1/4W		R377	1-249-409-11	CARBON 220 5% 1/4W F	
R207	1-247-807-31	CARBON 100 5% 1/4W		R378	1-249-409-11	CARBON 220 5% 1/4W F	
R208	1-249-423-11	CARBON 3. 3K 5% 1/4W F		R383	1-249-413-11	CARBON 470 5% 1/4W F	
R209	1-249-413-11	CARBON 470 5% 1/4W F		R384	1-249-413-11	CARBON 470 5% 1/4W F	
R210	1-249-425-11	CARBON 4. 7K 5% 1/4W F		R385	1-249-393-11	CARBON 10 5% 1/4W F	
R214	1-249-417-11	CARBON 1K 5% 1/4W F		R386	1-249-393-11	CARBON 10 5% 1/4W F	
R251	1-249-417-11	CARBON 1K 5% 1/4W F		R389	1-249-413-11	CARBON 470 5% 1/4W F	
R301	1-249-417-11	CARBON 1K 5% 1/4W F		R390	1-249-413-11	CARBON 470 5% 1/4W F	
R302	1-249-417-11	CARBON 1K 5% 1/4W F		R401	1-249-425-11	CARBON 4. 7K 5% 1/4W F	
R303	1-249-417-11	CARBON 1K 5% 1/4W F		R402	1-249-425-11	CARBON 4. 7K 5% 1/4W F	
R321	1-249-417-11	CARBON 1K 5% 1/4W F		R403	1-249-425-11	CARBON 4. 7K 5% 1/4W F	
R322	1-249-417-11	CARBON 1K 5% 1/4W F		R404	1-249-425-11	CARBON 4. 7K 5% 1/4W F	
R323	1-249-417-11	CARBON 1K 5% 1/4W F		R405	1-249-425-11	CARBON 4. 7K 5% 1/4W F	
R324	1-249-417-11	CARBON 1K 5% 1/4W F		R406	1-249-429-11	CARBON 10K 5% 1/4W	
R330	1-249-417-11	CARBON 1K 5% 1/4W F		R407	1-249-429-11	CARBON 10K 5% 1/4W	
R331	1-249-406-11	CARBON 120 5% 1/4W F		R408	1-247-903-00	CARBON 1M 5% 1/4W	
R342	1-249-417-11	CARBON 1K 5% 1/4W F		R409	1-249-441-11	CARBON 100K 5% 1/4W	
R343	1-249-441-11	CARBON 100K 5% 1/4W		R410	1-249-441-11	CARBON 100K 5% 1/4W	
R344	1-249-441-11	CARBON 100K 5% 1/4W		R411	1-249-441-11	CARBON 100K 5% 1/4W	
R345	1-249-425-11	CARBON 4. 7K 5% 1/4W F		R412	1-249-441-11	CARBON 100K 5% 1/4W	
				R413	1-249-441-11	CARBON 100K 5% 1/4W	
				R414	1-249-441-11	CARBON 100K 5% 1/4W	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R415	1-247-881-00	CARBON	120K 5% 1/4W	C817	1-164-159-11	CERAMIC 0.1uF	50V
R416	1-247-881-00	CARBON	120K 5% 1/4W	C818	1-164-159-11	CERAMIC 0.1uF	50V
R417	1-249-441-11	CARBON	100K 5% 1/4W	C819	1-162-294-31	CERAMIC 0.001uF 10%	50V
R418	1-249-441-11	CARBON	100K 5% 1/4W	C820	1-162-294-31	CERAMIC 0.001uF 10%	50V
R419	1-249-441-11	CARBON	100K 5% 1/4W	C821	1-164-159-11	CERAMIC 0.1uF	50V
R420	1-249-441-11	CARBON	100K 5% 1/4W	C860	1-162-282-31	CERAMIC 100PF 10%	50V
R421	1-249-393-11	CARBON	10 5% 1/4W F	< CONNECTOR >			
R422	1-249-393-11	CARBON	10 5% 1/4W F	CN800	1-568-861-11	SOCKET, CONNECTOR 18P	
R423	1-249-393-11	CARBON	10 5% 1/4W F	< DIODE >			
R451	1-249-417-11	CARBON	1K 5% 1/4W F	D801	8-719-043-43	DIODE VRPY5614S-1-J22Y (1)	
R452	1-249-417-11	CARBON	1K 5% 1/4W F	D802	8-719-043-43	DIODE VRPY5614S-1-J22Y (2)	
R453	1-249-417-11	CARBON	1K 5% 1/4W F	D803	8-719-043-43	DIODE VRPY5614S-1-J22Y (3)	
R454	1-249-417-11	CARBON	1K 5% 1/4W F	D804	8-719-043-43	DIODE VRPY5614S-1-J22Y (4)	
R455	1-249-417-11	CARBON	1K 5% 1/4W F	D805	8-719-043-43	DIODE VRPY5614S-1-J22Y (5)	
R456	1-249-417-11	CARBON	1K 5% 1/4W F	D806	8-719-043-43	DIODE VRPY5614S-1-J22Y (6)	
R457	1-249-417-11	CARBON	1K 5% 1/4W F	D807	8-719-043-43	DIODE VRPY5614S-1-J22Y (7)	
R601	1-249-429-11	CARBON	10K 5% 1/4W	D808	8-719-043-43	DIODE VRPY5614S-1-J22Y (8)	
R602	1-249-429-11	CARBON	10K 5% 1/4W	D809	8-719-043-43	DIODE VRPY5614S-1-J22Y (9)	
R603	1-249-393-11	CARBON	10 5% 1/4W F	D810	8-719-043-43	DIODE VRPY5614S-1-J22Y (10)	
R951	1-249-432-11	CARBON	18K 5% 1/4W	D811	8-719-043-39	DIODE MPY3338S-J210K (CONTINUE)	
R952	1-249-432-11	CARBON	18K 5% 1/4W	D812	8-719-045-14	DIODE MAA3338S-J210K (SHUFFLE)	
< SWITCH >				D813	8-719-043-38	DIODE MVR3338S-J210K (PROGRAM)	
S901	1-692-655-11	SWITCH, SLIDE (COMMAND MODE)		D820	8-719-987-63	DIODE 1N4148M	
< VIBRATOR >				< FLUORESCENT INDICATOR >			
X351	1-579-161-11	VIBRATOR, CRYSTAL (45.159MHz)		FL801	1-517-191-11	INDICATOR TUBE, FLUORESCENT	
X401	1-579-175-11	VIBRATOR, CERAMIC (10MHz)		< IC >			
*****				IC801	8-759-266-48	IC MB89646PF-109	
* A-4649-729-A PANEL BOARD, COMPLETE				IC802	8-759-183-27	IC M66004M5SP	
*****				IC803	8-759-183-47	IC M66310FP	
4-960-501-01 HOLDER (FL TUBE)				IC804	8-759-512-81	IC LH5160N-10L	
4-960-502-01 HOLDER (LED 3 GANG)				IC805	8-741-100-48	IC SBX1610-59	
4-960-503-01 HOLDER (LED 5 GANG)				IC806	8-759-183-47	IC M66310FP	
< CAPACITOR >				< COIL >			
C801	1-161-494-00	CERAMIC	0.022uF 25V	L880	1-412-473-21	INDUCTOR 0uH	
C802	1-125-486-11	DOUBLE LAYERS	0.22F 5.5V	< TRANSISTOR >			
C803	1-164-159-11	CERAMIC	0.1uF 50V	Q800	8-729-900-80	TRANSISTOR DTC114ES	
C804	1-124-584-00	ELECT	100uF 20% 10V	Q801	8-729-900-80	TRANSISTOR DTC114ES	
C805	1-162-306-11	CERAMIC	0.01uF 20% 16V	Q802	8-729-900-80	TRANSISTOR DTC114ES	
C806	1-162-306-11	CERAMIC	0.01uF 20% 16V	Q803	8-729-900-80	TRANSISTOR DTC114ES	
C807	1-162-306-11	CERAMIC	0.01uF 20% 16V	< RESISTOR >			
C810	1-162-294-31	CERAMIC	0.001uF 10% 50V	R801	1-249-411-11	CARBON 330 5% 1/4W	
C811	1-162-294-31	CERAMIC	0.001uF 10% 50V	R802	1-247-811-31	CARBON 150 5% 1/4W	
C812	1-162-294-31	CERAMIC	0.001uF 10% 50V				
C814	1-124-584-00	ELECT	100uF 20% 10V				
C816	1-124-584-00	ELECT	100uF 20% 10V				

PANEL

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R803	1-249-411-11	CARBON	330 5% 1/4W	R867	1-249-417-11	CARBON	1K 5% 1/4W F
R804	1-247-811-31	CARBON	150 5% 1/4W	R868	1-249-417-11	CARBON	1K 5% 1/4W F
R805	1-249-411-11	CARBON	330 5% 1/4W				
R806	1-247-811-31	CARBON	150 5% 1/4W	R870	1-249-429-11	CARBON	10K 5% 1/4W
R807	1-249-411-11	CARBON	330 5% 1/4W	R871	1-249-429-11	CARBON	10K 5% 1/4W
R808	1-247-811-31	CARBON	150 5% 1/4W	R872	1-249-429-11	CARBON	10K 5% 1/4W
R809	1-249-411-11	CARBON	330 5% 1/4W	R873	1-249-429-11	CARBON	10K 5% 1/4W
R810	1-247-811-31	CARBON	150 5% 1/4W	R874	1-249-429-11	CARBON	10K 5% 1/4W
R811	1-249-411-11	CARBON	330 5% 1/4W	R875	1-249-429-11	CARBON	10K 5% 1/4W
R812	1-247-811-31	CARBON	150 5% 1/4W	R876	1-249-429-11	CARBON	10K 5% 1/4W
R813	1-249-411-11	CARBON	330 5% 1/4W	R877	1-249-429-11	CARBON	10K 5% 1/4W
R814	1-247-811-31	CARBON	150 5% 1/4W	R878	1-249-429-11	CARBON	10K 5% 1/4W
R815	1-249-411-11	CARBON	330 5% 1/4W	R879	1-249-429-11	CARBON	10K 5% 1/4W
R816	1-247-811-31	CARBON	150 5% 1/4W	R880	1-249-429-11	CARBON	10K 5% 1/4W
R817	1-249-411-11	CARBON	330 5% 1/4W	R881	1-249-429-11	CARBON	10K 5% 1/4W
R818	1-247-811-31	CARBON	150 5% 1/4W	R882	1-249-429-11	CARBON	10K 5% 1/4W
R819	1-249-411-11	CARBON	330 5% 1/4W	R883	1-249-429-11	CARBON	10K 5% 1/4W
R820	1-247-811-31	CARBON	150 5% 1/4W	R884	1-249-429-11	CARBON	10K 5% 1/4W
R821	1-249-411-11	CARBON	330 5% 1/4W	R885	1-249-399-11	CARBON	33 5% 1/4W F
R830	1-249-429-11	CARBON	10K 5% 1/4W	R886	1-249-429-11	CARBON	10K 5% 1/4W
R831	1-249-417-11	CARBON	1K 5% 1/4W F	R889	1-249-429-11	CARBON	10K 5% 1/4W
R832	1-249-419-11	CARBON	1.5K 5% 1/4W F	R890	1-249-417-11	CARBON	1K 5% 1/4W F
R833	1-249-420-11	CARBON	1.8K 5% 1/4W F				
R834	1-249-422-11	CARBON	2.7K 5% 1/4W F	< SWITCH >			
R835	1-249-423-11	CARBON	3.3K 5% 1/4W F	S800	1-554-303-21	SWITCH, TACTILE (1)	
R836	1-249-425-11	CARBON	4.7K 5% 1/4W F	S801	1-554-303-21	SWITCH, TACTILE (2)	
R837	1-249-428-11	CARBON	8.2K 5% 1/4W F	S802	1-554-303-21	SWITCH, TACTILE (3)	
R838	1-249-431-11	CARBON	15K 5% 1/4W	S803	1-554-303-21	SWITCH, TACTILE (4)	
				S804	1-554-303-21	SWITCH, TACTILE (5)	
R839	1-249-437-11	CARBON	47K 5% 1/4W	S805	1-554-303-21	SWITCH, TACTILE (6)	
R840	1-249-429-11	CARBON	10K 5% 1/4W	S806	1-554-303-21	SWITCH, TACTILE (7)	
R841	1-249-417-11	CARBON	1K 5% 1/4W F	S807	1-554-303-21	SWITCH, TACTILE (8)	
R842	1-249-419-11	CARBON	1.5K 5% 1/4W F	S808	1-554-303-21	SWITCH, TACTILE (9)	
R843	1-249-420-11	CARBON	1.8K 5% 1/4W F	S809	1-554-303-21	SWITCH, TACTILE (GROUP 10)	
R844	1-249-422-11	CARBON	2.7K 5% 1/4W F	S810	1-554-303-21	SWITCH, TACTILE (GROUP ENTRY)	
R845	1-249-423-11	CARBON	3.3K 5% 1/4W F	S811	1-554-303-21	SWITCH, TACTILE (REPEAT)	
R846	1-249-425-11	CARBON	4.7K 5% 1/4W F	S812	1-554-303-21	SWITCH, TACTILE (CONTINUE)	
R847	1-249-428-11	CARBON	8.2K 5% 1/4W F	S813	1-554-303-21	SWITCH, TACTILE (SHUFFLE)	
R848	1-249-431-11	CARBON	15K 5% 1/4W	S814	1-554-303-21	SWITCH, TACTILE (PROGRAM)	
R849	1-249-437-11	CARBON	47K 5% 1/4W	S815	1-554-303-21	SWITCH, TACTILE (CLEAR)	
R850	1-249-429-11	CARBON	10K 5% 1/4W	S816	1-554-303-21	SWITCH, TACTILE (MEMO)	
R851	1-249-417-11	CARBON	1K 5% 1/4W F	S817	1-554-303-21	SWITCH, TACTILE (CHECK)	
R852	1-249-419-11	CARBON	1.5K 5% 1/4W F	S818	1-554-303-21	SWITCH, TACTILE (TIME)	
R853	1-249-429-11	CARBON	10K 5% 1/4W	S819	1-554-303-21	SWITCH, TACTILE (LEVEL FILE)	
R854	1-249-429-11	CARBON	10K 5% 1/4W	S820	1-554-303-21	SWITCH, TACTILE (ERASE)	
R856	1-249-429-11	CARBON	10K 5% 1/4W	S821	1-554-303-21	SWITCH, TACTILE (FILE)	
R860	1-249-429-11	CARBON	10K 5% 1/4W	S822	1-554-303-21	SWITCH, TACTILE (INPUT)	
R861	1-249-429-11	CARBON	10K 5% 1/4W				
R862	1-249-429-11	CARBON	10K 5% 1/4W				
R863	1-249-434-11	CARBON	27K 5% 1/4W	< VIBRATOR >			
R864	1-247-864-11	CARBON	24K 5% 1/4W	X800	1-579-175-11	VIBRATOR, CERAMIC (10MHz)	
R865	1-249-411-11	CARBON	330 5% 1/4W				

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
*	1-649-104-11	POWER SW BOARD *****		R006	1-216-296-00	METAL GLAZE	0 5% 1/8W
		< CONNECTOR >		R007	1-216-296-00	METAL GLAZE	0 5% 1/8W
* CN805	1-568-943-11	PIN, CONNECTOR 5P		R008	1-216-296-00	METAL GLAZE	0 5% 1/8W
		< SWITCH >		R009	1-216-296-00	METAL GLAZE	0 5% 1/8W
S805	1-572-714-11	SWITCH, PUSH (POWER)		R010	1-216-296-00	METAL GLAZE	0 5% 1/8W
*****				R011	1-216-296-00	METAL GLAZE	0 5% 1/8W
*	A-4649-728-A	RF BOARD, COMPLETE *****		R012	1-216-296-00	METAL GLAZE	0 5% 1/8W
		< CAPACITOR >		R013	1-216-296-00	METAL GLAZE	0 5% 1/8W
C173	1-126-205-11	ELECT CHIP 47uF 20% 6.3V		R014	1-216-296-00	METAL GLAZE	0 5% 1/8W
C174	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V		R015	1-216-296-00	METAL GLAZE	0 5% 1/8W
C175	1-126-206-11	ELECT CHIP 100uF 20% 6.3V		R016	1-216-296-00	METAL GLAZE	0 5% 1/8W
C176	1-163-227-11	CERAMIC CHIP 10PF 0.5PF 50V		R017	1-216-296-00	METAL GLAZE	0 5% 1/8W
C180	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R018	1-216-296-00	METAL GLAZE	0 5% 1/8W
C181	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R019	1-216-296-00	METAL GLAZE	0 5% 1/8W
C183	1-124-778-00	ELECT CHIP 22uF 20% 6.3V		R020	1-216-296-00	METAL GLAZE	0 5% 1/8W
C184	1-126-205-11	ELECT CHIP 47uF 20% 6.3V		R021	1-216-296-00	METAL GLAZE	0 5% 1/8W
C185	1-126-205-11	ELECT CHIP 47uF 20% 6.3V		R022	1-216-296-00	METAL GLAZE	0 5% 1/8W
C186	1-126-601-11	ELECT CHIP 2.2uF 20% 50V		R023	1-216-296-00	METAL GLAZE	0 5% 1/8W
C187	1-163-038-00	CERAMIC CHIP 0.1uF 25V		R024	1-216-296-00	METAL GLAZE	0 5% 1/8W
		< CONNECTOR >		R025	1-216-296-00	METAL GLAZE	0 5% 1/8W
CN110	1-580-883-21	SOCKET, CONNECTOR (SMT) 12P		R026	1-216-296-00	METAL GLAZE	0 5% 1/8W
CN112	1-580-883-21	SOCKET, CONNECTOR (SMT) 12P		R027	1-216-296-00	METAL GLAZE	0 5% 1/8W
CN113	1-580-862-11	SOCKET, CONNECTOR (SMT) 8P		R028	1-216-295-00	METAL GLAZE	0 5% 1/10W
CN114	1-580-866-11	SOCKET, CONNECTOR (SMT) 12P		R029	1-216-296-00	METAL GLAZE	0 5% 1/8W
		< DIODE >		R030	1-216-296-00	METAL GLAZE	0 5% 1/8W
D101	8-719-210-33	DIODE EC10DS2		R031	1-216-296-00	METAL GLAZE	0 5% 1/8W
		< IC >		R032	1-216-296-00	METAL GLAZE	0 5% 1/8W
IC110	8-752-033-14	IC CXA1081Q		R033	1-216-296-00	METAL GLAZE	0 5% 1/8W
IC111	8-759-071-79	IC BA6297AFP		R034	1-216-296-00	METAL GLAZE	0 5% 1/8W
		< TRANSISTOR >		R035	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q101	8-729-804-41	TRANSISTOR 2SB1122-S		R036	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q102	8-729-805-43	TRANSISTOR 2SC3396		R171	1-216-001-00	METAL CHIP	10 5% 1/10W
		< RESISTOR >		R172	1-216-003-11	METAL GLAZE	12 5% 1/10W
R001	1-216-295-00	METAL GLAZE 0 5% 1/10W		R173	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R002	1-216-295-00	METAL GLAZE 0 5% 1/10W		R174	1-216-081-00	METAL CHIP	22K 5% 1/10W
R003	1-216-296-00	METAL GLAZE 0 5% 1/8W		R175	1-216-049-00	METAL CHIP	1K 5% 1/10W
R004	1-216-296-00	METAL GLAZE 0 5% 1/8W		R176	1-216-024-00	METAL GLAZE	91 5% 1/10W
R005	1-216-296-00	METAL GLAZE 0 5% 1/8W		R177	1-216-073-00	METAL CHIP	10K 5% 1/10W
				R178	1-216-073-00	METAL CHIP	10K 5% 1/10W
				R181	1-216-076-00	METAL CHIP	13K 5% 1/10W
				R182	1-216-076-00	METAL CHIP	13K 5% 1/10W
				R183	1-216-049-00	METAL CHIP	1K 5% 1/10W
				R184	1-216-085-00	METAL CHIP	33K 5% 1/10W
				R185	1-216-085-00	METAL CHIP	33K 5% 1/10W
				R187	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
				R188	1-216-075-00	METAL CHIP	12K 5% 1/10W
				R190	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
				R191	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
				R192	1-216-075-00	METAL CHIP	12K 5% 1/10W
				R193	1-216-073-00	METAL CHIP	10K 5% 1/10W

RF	SENSOR	TABLE MOTOR	TIMER SW	TRANSFORMER
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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R194	1-216-089-00	METAL GLAZE 47K 5% 1/10W				< CONNECTOR >	
R195	1-216-089-00	METAL GLAZE 47K 5% 1/10W					
R196	1-216-089-00	METAL GLAZE 47K 5% 1/10W		CN201	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P	
R197	1-216-089-00	METAL GLAZE 47K 5% 1/10W				< GROUND PLATE >	
R198	1-216-092-00	METAL GLAZE 62K 5% 1/10W					
R199	1-216-092-00	METAL GLAZE 62K 5% 1/10W		* EB201	4-942-204-01	PLATE, GROUND	
		< VARIABLE RESISTOR >				< TRANSFORMER >	
RV101	1-223-276-11	RES, ADJ, CERMET 22K		△T201	1-423-781-11	TRANSFORMER, POWER (CX100:US, CND/CX100S)	
RV102	1-223-276-11	RES, ADJ, CERMET 22K		△T201	1-423-782-11	TRANSFORMER, POWER (CX100:AEP, UK, AUS)	
*****				*****			
*	1-649-107-11	SENSOR BOARD				MISCELLANEOUS	
		*****				*****	
		< CAPACITOR >					
C852	1-161-375-00	CERAMIC 0.0022uF 20% 50V		△23	1-558-568-21	CORD, POWER (CX100:AEP)	
		< IC >		△23	1-590-836-11	CORD, POWER (CX100:US, CND/CX100S)	
IC810	8-749-924-18	IC RPI-1391		△23	1-696-571-11	CORD, POWER (CX100:UK)	
IC811	8-749-924-18	IC RPI-1391		△23	1-696-845-11	CORD, POWER (CX100:AUS)	
IC812	8-749-924-18	IC RPI-1391		24	1-751-482-11	WIRE (FLAT TYPE) (10 CORE)	
		< RESISTOR >		25	1-751-480-11	WIRE (FLAT TYPE) (18 CORE)	
R892	1-249-416-11	CARBON 820 5% 1/4W F		26	1-751-478-11	WIRE (FLAT TYPE) (23 CORE)	
R893	1-249-416-11	CARBON 820 5% 1/4W F		27	1-751-530-11	WIRE (FLAT TYPE) (9 CORE)	
R894	1-249-416-11	CARBON 820 5% 1/4W F		29	1-543-982-11	CORE, FERRITE	
*****				108	1-751-481-11	WIRE (FLAT TYPE) (8 CORE)	
*	1-649-110-11	TABLE MOTOR BOARD		114	1-751-479-11	WIRE (FLAT TYPE) (12 CORE)	
		*****		201	8-835-456-01	MOTOR, DC SSC-02E01S	
		< MOTOR >		△209	8-848-178-11	OPTICAL PICK-UP BLOCK KSS-310A	
M803	A-4604-834-A	MOTOR ASSY (TABLE)		M801	A-4604-834-A	MOTOR ASSY CHUCKING	
*****				M802	A-4604-834-A	MOTOR ASSY, LOADING	
*	1-649-106-11	TIMER SW BOARD		M803	A-4604-834-A	MOTOR ASSY TABLE	
		*****		△T201	1-423-781-11	TRANSFORMER, POWER (CX100:US, CND/CX100S)	
		< SWITCH >		△T201	1-423-782-11	TRANSFORMER, POWER (CX100:AEP, UK, AUS)	
S831	1-570-157-51	SWITCH, SLIDE (TIMER)		*****			
*****						ACCESSORIES & PACKING MATERIALS	
*	1-649-114-11	TRANSFORMER BOARD				*****	

		< CAPACITOR >				1-467-244-11	REMOTE COMMANDER (RM-DX100) (CX100)
△C201	1-164-159-11	CERAMIC 0.1uF 50V				1-558-271-11	CORD, CONNECTION
						3-757-299-11	MANUAL, INSTRUCTION
							(ENGLISH, FRENCH, SPANISH) (CX100:CND, AEP, UK)
						3-757-299-21	MANUAL, INSTRUCTION (ENGLISH)
							(CX100:US, AUS/CX100S)
						3-757-299-41	MANUAL, INSTRUCTION
							(GERMAN, DUTCH, ITALIAN, PORTUGUESE) (CX100:AEP)
						3-943-535-01	COVER, BATTERY (for RM-DX100)
							(CX100:US, CND, AEP, AUS, UK)
				*		4-961-161-01	CUSHION
				*		4-961-162-01	INDIVIDUAL CARTON (CX100)
				*		4-962-895-01	HOLDER (BOOKLET)
				*		4-963-012-01	INDIVIDUAL CARTON (CX100S)

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description	Remark

		HARDWARE LIST	

#1	7-682-649-09	SCREW +PWH 3X10	
#2	7-685-249-19	SCREW +KTP 3X14 TYPE2 NON-SLIT	
#3	7-685-646-79	SCREW +P 3X8 TYPE2 NON-SLIT	
#4	7-685-671-19	SCREW +BVTP 5X10 TYPE2 N-S	
#5	7-682-545-09	SCREW +B 3X4	
#6	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#7	7-621-775-00	SCREW +B 2.6X3	
#8	7-621-772-40	SCREW +B 2X8	
#9	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
#10	7-621-772-20	SCREW +B 2X5	
#11	7-682-947-01	SCREW +PSW 3X6	
#12	7-682-547-09	SCREW +BVTT 3X6 (S)	
#13	7-624-106-04	STOP RING 3.0, TYPE -E	
#14	7-682-544-09	SCREW +B 3X3	
#15	7-621-775-20	SCREW +B 2.6X5	
#16	7-621-770-87	SCREW +B 2.6X5	
#17	7-624-104-04	STOP RING 2.0, TYPE -E	
#18	7-624-108-04	STOP RING 4.0, TYPE -E	
#19	7-685-646-81	SCREW +BVTP 3X8 TYPE2	
#20	7-624-105-04	STOP RING 2.3, TYPE -E	
#21	7-628-253-15	SCREW +PS 2X5	
#22	7-682-648-09	SCREW +PWH 3X8	
#23	7-627-553-37	PRECISION SCREW +P 2X3 TYPE 3	
#24	7-627-852-17	+P 1.7X4	
#25	7-685-102-19	SCREW +P 2X4 TYPE2 NON-SLIT	
#26	7-682-546-09	SCREW +B 3X5	
#27	7-685-870-04	SCREW +BVTT 3X5 (S)	

CDP-CX100/CX100S

SONY SERVICE MANUAL

US Model
CDP-CX100/CX100S

Canadian Model
AEP Model
UK Model
CDP-CX100

CORRECTION-1

Correct your service manual as shown below.

 : indicates corrected portion.

Page	INCORRECT			CORRECT	
	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Description</u>
47		X-2625-461-1	OMD CHASSIS ASSY	X-2625-  41-1	OMD CHASSIS ASSY